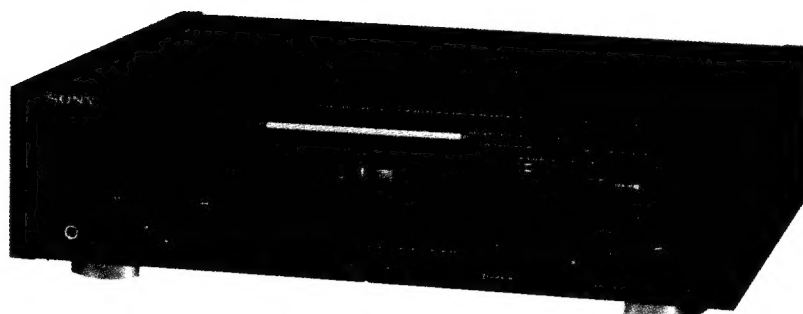



TC-K333ESR/K730ES

SERVICE MANUAL



US Model
Canadian Model
AEP Model
UK Model
 TC-K730ES
E Model
 TC-K333ESR

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

This photo is TC-K333ESR

SPECIFICATIONS

Recording system 4-track 2-channel stereo
 Bias frequency 210 kHz
 Heads Erase head × 1 (S & F head)
 Record head × 1 (LA head)
 Playback head × 1 (LA head)
 Motors Capstan motor × 1 (direct drive linear torque BSL motor)
 Reel motor × 1 (DC motor)
 Wow and flutter ±0.04% W, peak (IEC)
 0.025% WRMS
 Fast-forward and rewind time
 Approx. 90 sec (with C-60 cassette)
 Frequency response
 Dolby NR OFF
 TYPE IV cassette (Sony METAL-ES)
 20 – 21,000 Hz ±3 dB (DIN)
 20 – 16,000 Hz ±3 dB (0 VU recording level)
 15 – 22,000 Hz
 TYPE II cassette (Sony UX-S)
 20 – 19,000 Hz ±3 dB (DIN)
 15 – 20,000 Hz
 TYPE I cassette (Sony HF-S)
 20 – 17,000 Hz ±3 dB (DIN)
 15 – 19,000 Hz

Signal-to-noise ratio (at peak level)

Cassette	TYPE I (Sony HF-S)	TYPE II (Sony UX-S)	TYPE IV (Sony METAL-ES)
Dolby NR system			
C-TYPE ON	69 dB	72 dB	73 dB
B-TYPE ON	63 dB	66 dB	67 dB
OFF	56 dB	59 dB	60 dB

Total harmonic distortion
 0.8% (with Sony METAL-ES cassette)
 Inputs Line inputs (phono jacks)
 Sensitivity 77.5 mV
 Input impedance 50 k ohms
 Outputs Line outputs (phono jacks)
 Rated output level 0.44 V (–5 dB) at
 load impedance 47 k ohms
 Minimum load impedance 10 k ohms
 Headphones output (stereo phone jack)
 Output level continuously variable
 from 0 – 3 mW (at load impedance 32 ohms)

General

Power requirements
 US, Canadian model: 120V AC, 60Hz
 UK model: 240V AC, 50Hz
 (220V AC adjustable by authorized Sony personnel)
 AEP model: 220V AC, 50/60 Hz
 (240V AC adjustable by authorized Sony personnel)
 E model: 120, 220 or 240V AC
 adjustable, 50/60Hz
 Power consumption
 30 watts
 Dimensions Approx. 470 × 125 × 350 mm (w/h/d)
 (18³/₈ × 5 × 13³/₄ inches)
 Weight Approx. 9.5 kg (22 lb)
 Supplied accessories
 Connecting cord (2)
 Screws (8)

— continued on next page —

STEREO CASSETTE DECK
SONY®



Peak program meters

Display range −40 to +8 dB
 Frequency response 20 – 20,000 Hz ±1.5 dB
 Attack time 1 ms
 Recovery time 750 ms (from 0 to −20 dB)
 Number of display segments
 16 each for left and right channel

Design and specifications are subject to change without notice.


Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

OPERATING VOLTAGE

Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage.

The USA and Canada model operates on 120 V AC.

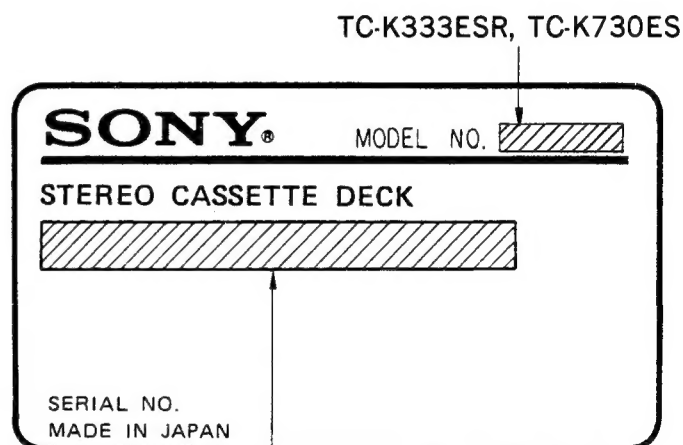
The European model operates on 220 V AC (or 240 V AC adjustable by authorized Sony personnel).

The United Kingdom model operates on 240 V AC (or 220 V AC adjustable by authorized Sony personnel).

The model for other countries operates on 120, 220 or 240 V AC. The voltage selector is located on the rear panel. If the selector must be reset, **disconnect the AC power cord** and set the selector to the appropriate voltage.

MODEL IDENTIFICATION

— Specification Label —



AEP Model: AC: 220 V~50/60 Hz


UK Model: AC: 240 V~50/60 Hz

E Model: AC: 120/220/240 V~50/60 Hz 30 W

US Model: AC: 120 V 60 Hz 30 W

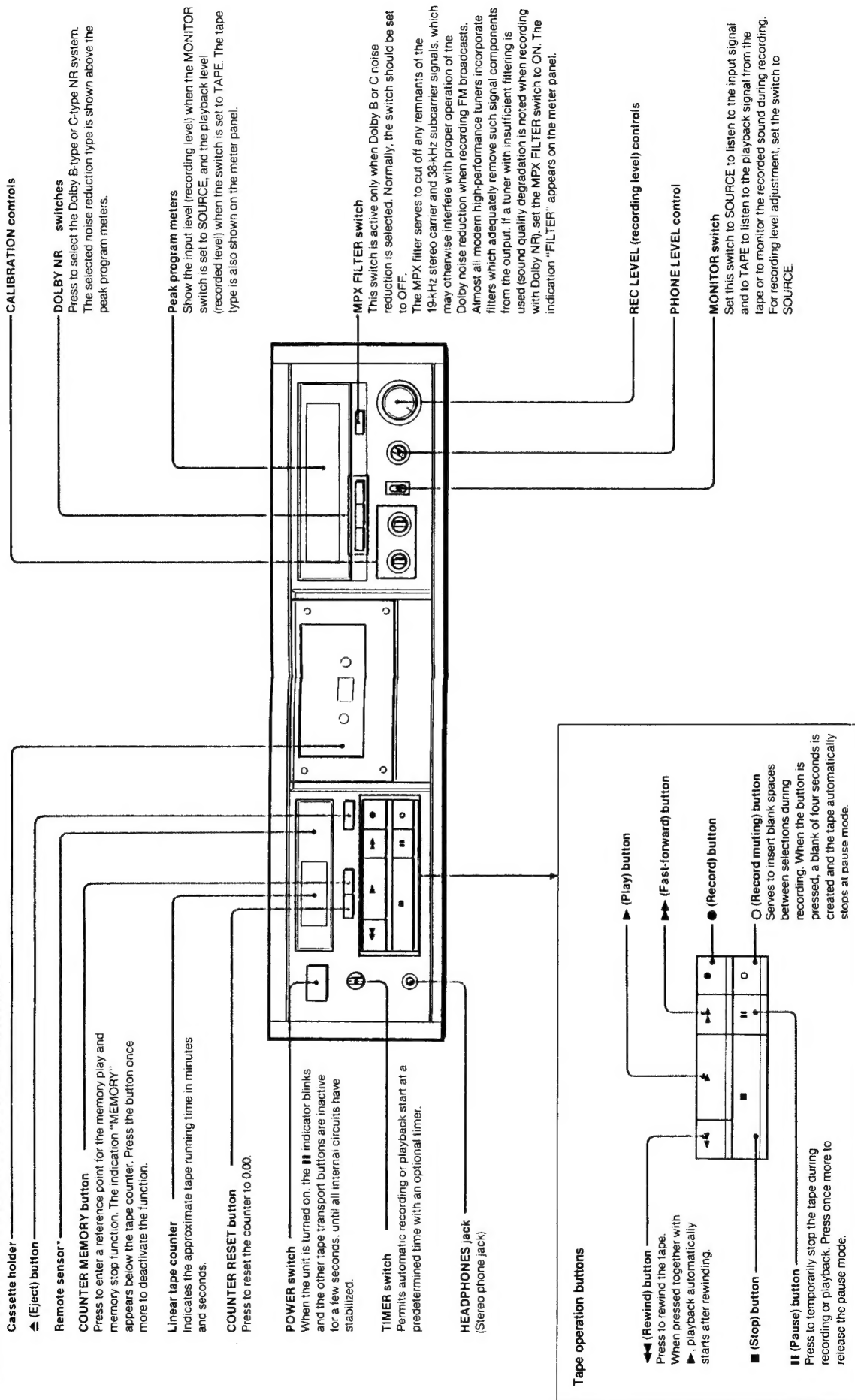
Canadian Model: AC: 120 V 60 Hz 30 W

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

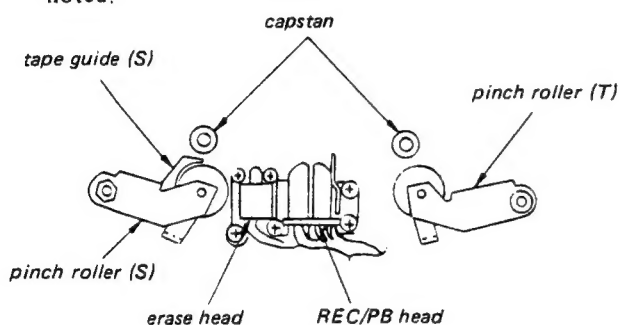


SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

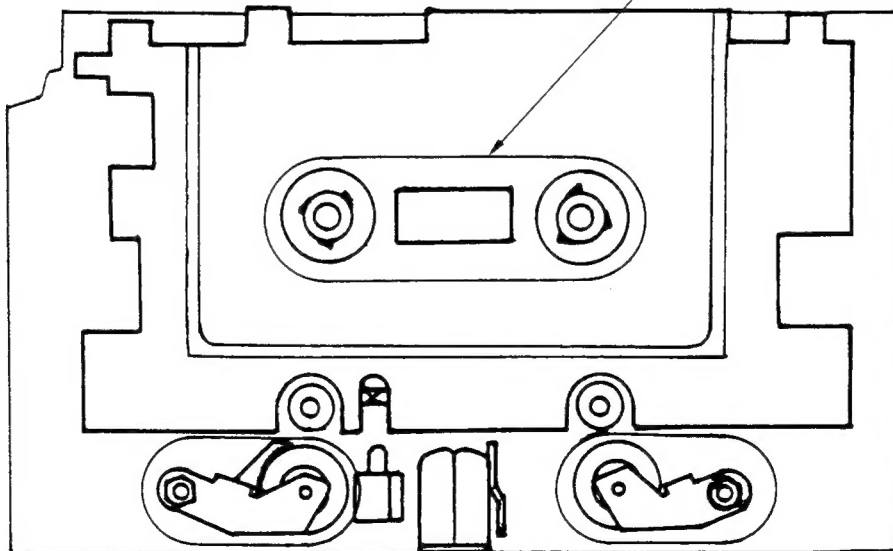
record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback and erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



FF, REW Torque Check

1. Insert the torque meter CQ201B.
2. Check FF torque when changing the mode STOP → FF.
3. Check REW torque when changing the mode STOP → REW.

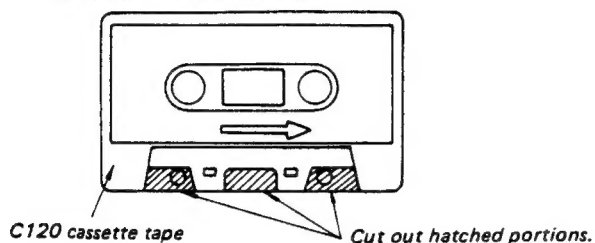
Torque	Torque meter	Reading
FF, REW	CQ201B	60 to 130 g·cm (0.84 to 1.82 oz·inch)



Head Height Adjustment

Insert a mirror cassette or adjustment cassette and adjust screws **A** – **C** so that the tape enters the tape guide of the record/playback head smoothly when pushing the head base out by hand.

1. Make an adjustment cassette as shown below or use a mirror cassette.



2. Insert the mirror cassette (or adjustment cassette) into the set. In FWD mode, the tape should not curl at the portions shown by arrows (tape guides) in Fig. a. If it does, adjust the height of tape guide of supply pinch roller.

Adjustment locations:

adjustment screw of tape curl in Fig. b
(Be careful not to turn the screw more than 1/2 turn.)

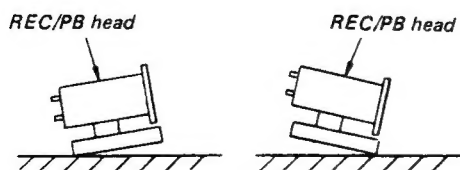
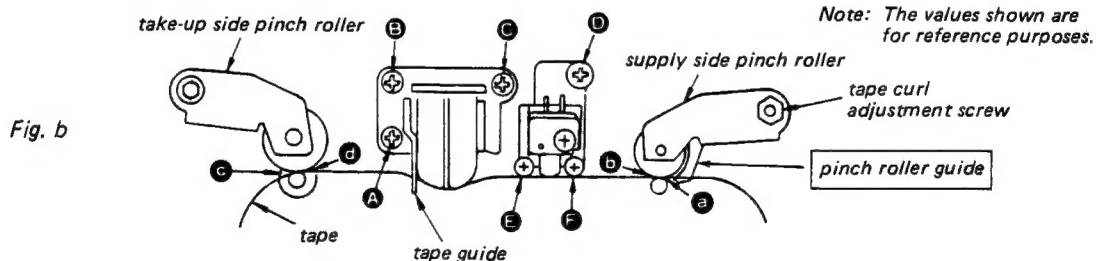
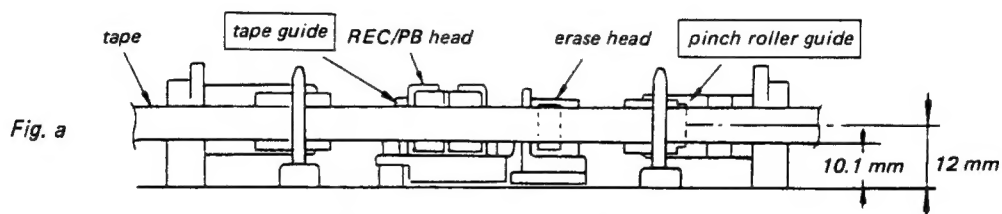


Fig. c

Fig. d

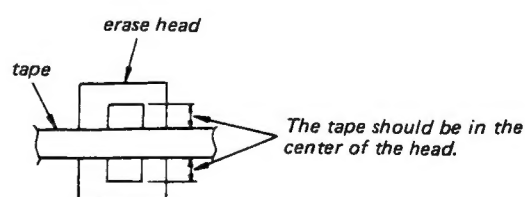


Fig. e

3. Back tension: 0

Make sure that there is no tape twist at portions **a** – **d**.

1. When the tape twists upwards:
Turn adjustment screws **B**, **C** of the record/playback head and recline the head as shown in Fig. c.
2. When the tape twists downwards:
Turn adjustment screws **B**, **C** and recline the head as shown in Fig. d.

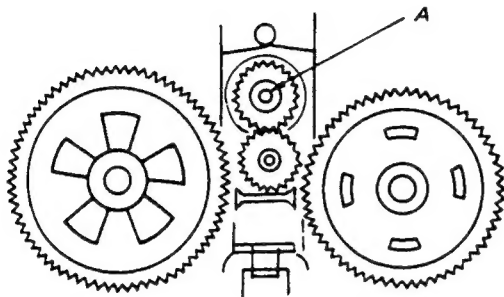
4. Measure the height of erase head.

If it is out of the range indicated in Fig. e, follow the procedures below.

1. When the height of erase head is out of the range:
Adjust the height by screws **D**, **E**, **F** of the erase head.
2. After adjusting the height of the erase head, make sure that the head is not inclined. If necessary, loosen or tighten adjustment screw **D**.

Forward Torque/Back Tension Torque Adjustment

1. Insert the taken-up tape, and set the Forward mode. Adjust RV701 so that the A begins to rotate.



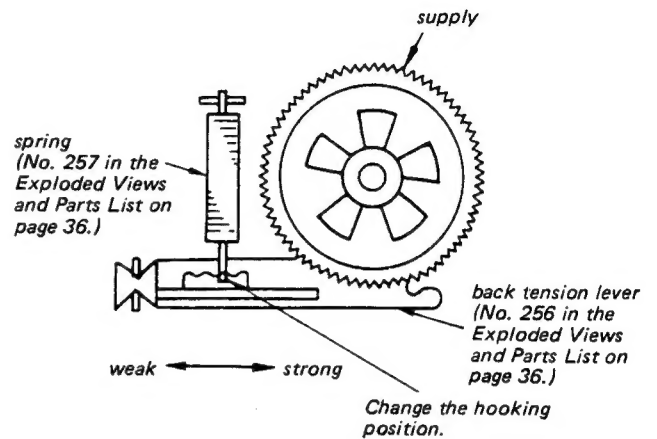
2. Insert the torque meter CQ102C, make sure that the forward torque and the back tension torque meet the specifications.

Specifications

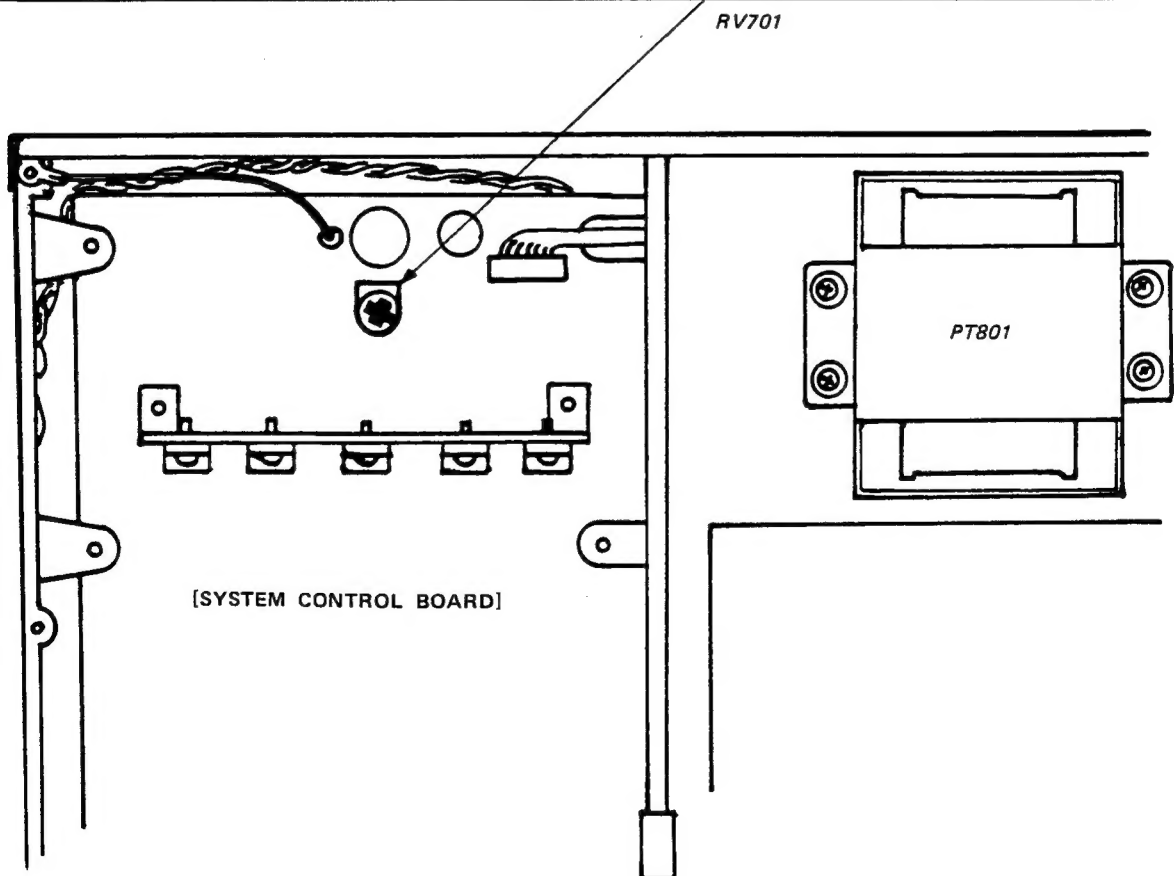
Forward torque: 30 to 60 g·cm
(0.42 to 0.84 oz·inch)

Forward back tension torque:
7 to 10.5 g·cm
(0.1 to 0.15 oz·inch)

3. When the forward back tension torque doesn't meet the specifications, adjust by changing the hooking position of the spring as shown below.



Adjustment Location: system control board



SECTION 3 ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.

The adjustments should be performed for both L-CH and R-CH.

- **Simultaneous REC/PB Mode:**

Input the signals to LINE IN terminal and set to REC mode. Set the monitor switch to TAPE, and monitor the recorded signal from LINE OUT terminal.

- **Switch Position:**

DOLBY NR OFF

NPX FILTER OFF

TIMER OFF

- **Standard Record:**

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

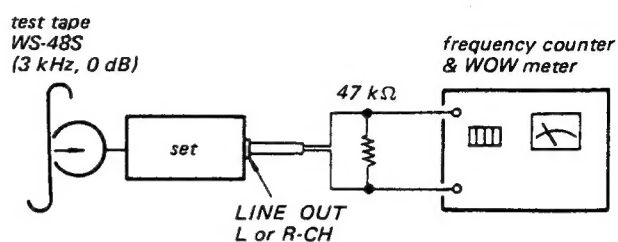
Input Terminal	LINE IN
source impedance	10 k Ω
input level	0.25 V (–10 dB)

Standard Output Level

Output Terminal	LINE OUT
load impedance	47 k Ω
output level	0.44 V (–5 dB)

Tape Speed/WOW Check

Procedure:



1. Measure the output frequency and the WOW value while playing back the tape top of the test tape.
2. Turn over the test tape, measure the output frequency and the WOW value, and check the difference against the values of the step 1.

Specification:

TAPE SPEED deviation: within 2,990 to 3,010 Hz

TAPE SPEED fluctuating width: within 2,990 to 3,010 Hz

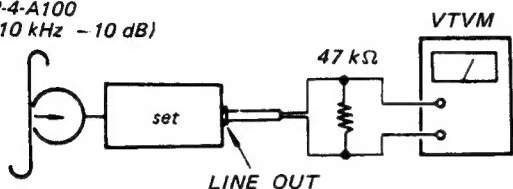
WOW (WRMS): 0.037% below

Provisional Playback Head Azimuth Adjustment

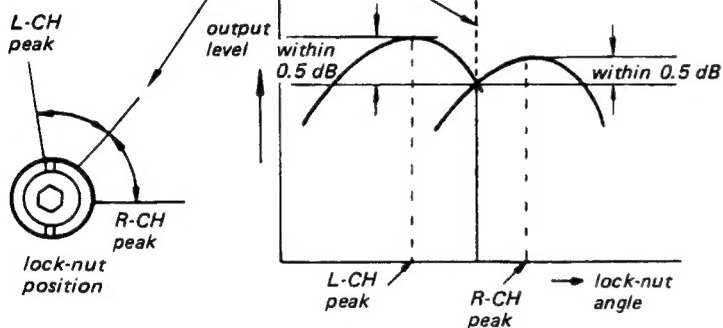
Procedure:

1. Mode: playback

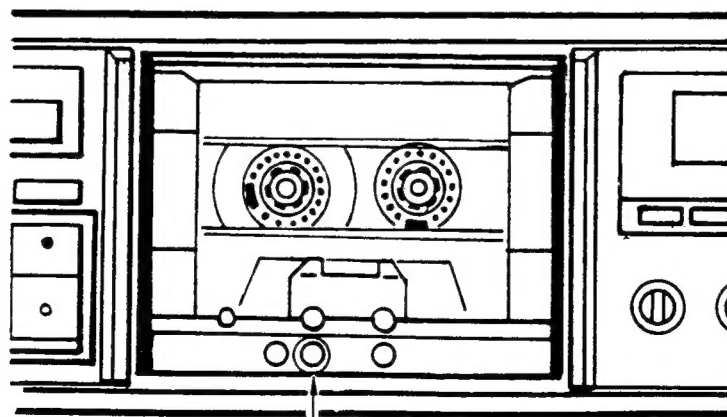
test tape
P-4-A100
(10 kHz -10 dB)



2. Turn the adjustment lock-nut for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



Adjustment Location:

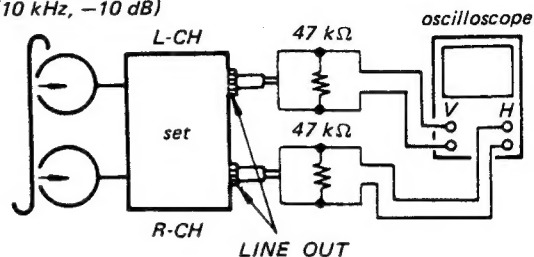


PB head azimuth adjustment screw

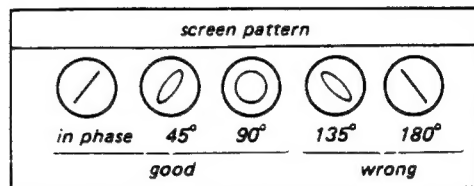
3. Phase check.

Mode: playback

test tape
P-4-A100
(10 kHz, -10 dB)



4. Make sure the phase difference is in between in-phase to 90°.

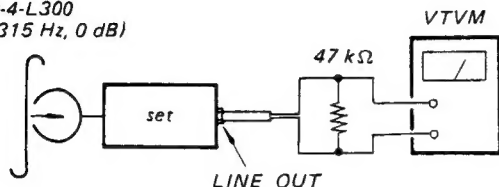


Playback Level Adjustment

Procedure:

Mode: playback

test tape
P-4-L300
(315 Hz, 0 dB)



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the specified LINE OUT level.

Specification:

LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: PB board

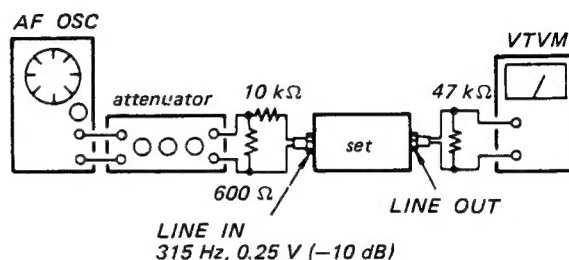
Meter Level Adjustment

Setting:

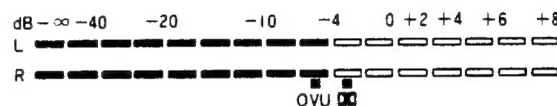
MONITOR switch: SOURCE

Procedure:

1. Stop mode.

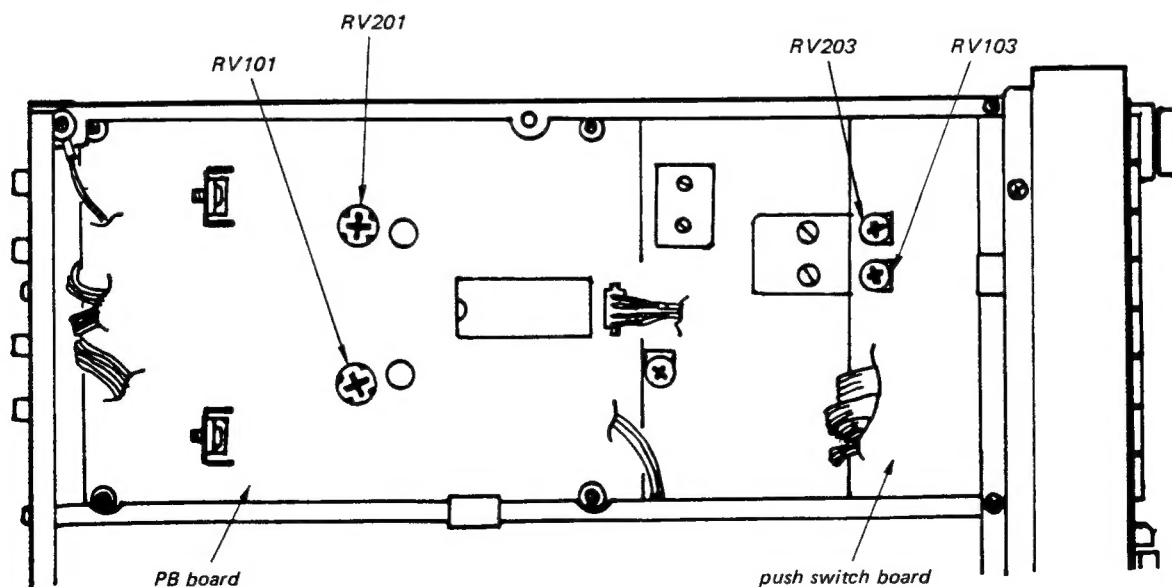


2. Adjust the recording level so that the LINE OUT level is 0.44 V (-5 dB). In this time adjust RV103 (L-CH) and RV203 (R-CH) so that the 0 VU (-4 dB) segments of the meter light-up.



3. Adjust the recording level so that the LINE OUT level is 1.9 V (8 dB). In this time, make sure that all the segments of the meter light-up.

Adjustment Location: push switch board

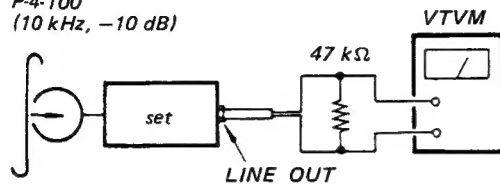


PB DOLBY NR Check

Procedure:

1. Mode: playback

test tape
P-4-100
(10 kHz, -10 dB)



2. Make sure that the output levels are different in DOLBY NR OFF, B, and C.

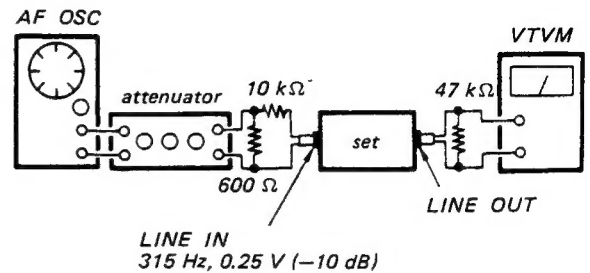
Specification:

OFF ↔ B level difference -0.5 to -2.5 dB
B ↔ C level difference -0.5 to -2.5 dB

MPX FILTER Check

Procedure:

1. Mode: stop



2. Apply 315 Hz, 0.25 V (-10 dB) signal and adjust REC LEVEL control so that the LINE OUT level is 0.44 V (-5 dB).
3. Apply 19 kHz, 0.25 V (-10 dB) signal and measure the LINE OUT level.

Specification:

DOLBY NR: OFF, FILTER: ON/OFF
0.49 to 0.39 V (-4 to -6 dB)
DOLBY NR: B, C, FILTER: ON
0.025 V (-30 dB) or less

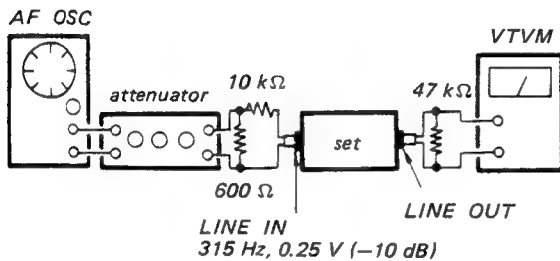
Provisional Record Head Azimuth Adjustment

Setting:

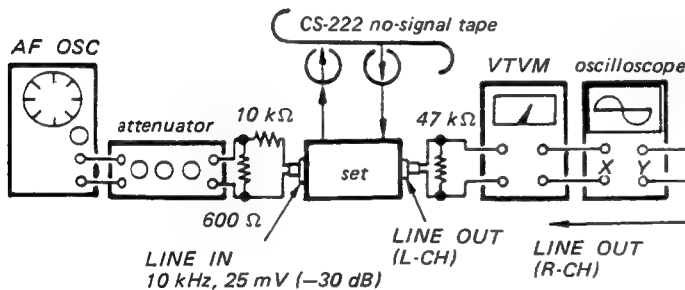
BIAS CAL control: center click

Turn RV506 (L-CH, R-CH) fully clockwise and counterclockwise 1/2 to 1 time. (See Record Bias Adjustment on page 13.)

Procedure:

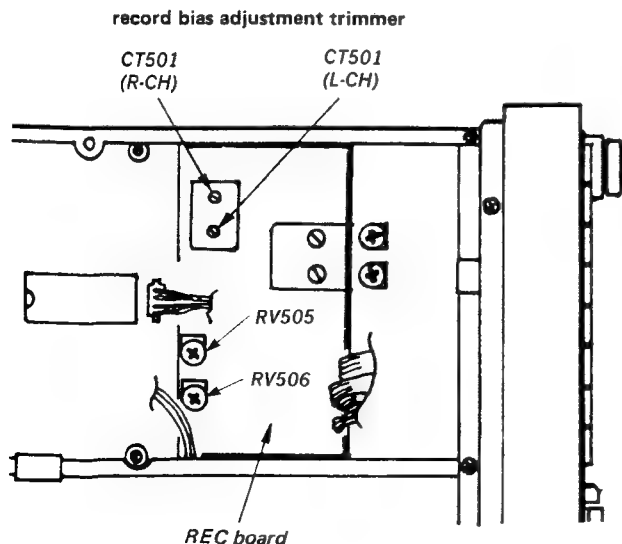


1. Apply 315 Hz, 0.25 V (-10 dB) signal and adjust REC LEVEL control so that the LINE OUT level is 0.44 V (-5 dB).

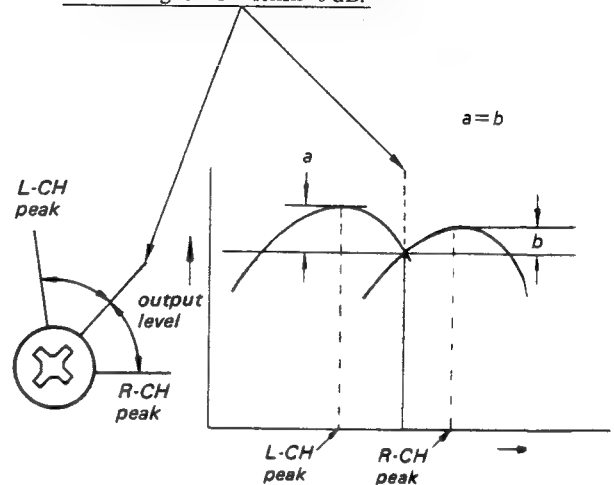


2. Apply 10 kHz, 25 mV (-30 dB) signal, set to the simultaneous REC/PB mode.

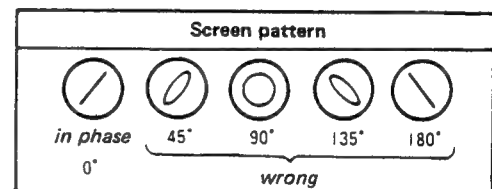
Adjustment Location: REC board



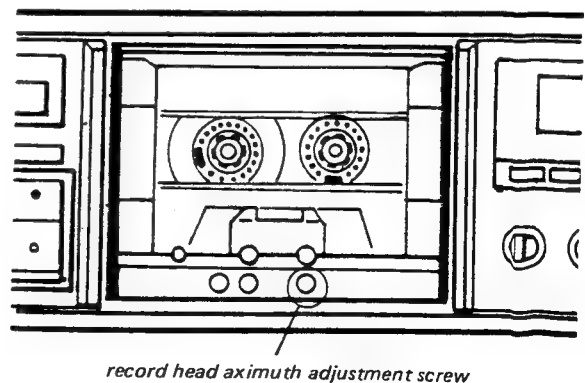
3. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0 dB.



4. Simultaneously, adjust the azimuth screw so that the phase difference between L-CH and R-CH is 0°.



Adjustment Location: head



Bias Osc Frequency Adjustment

Setting:

Metal Tape (TYPE IV)

LINE IN: no signal

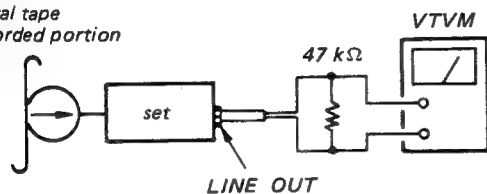
REC LEVEL knob: standard record position
(See page 7.)

• Bias Osc Frequency

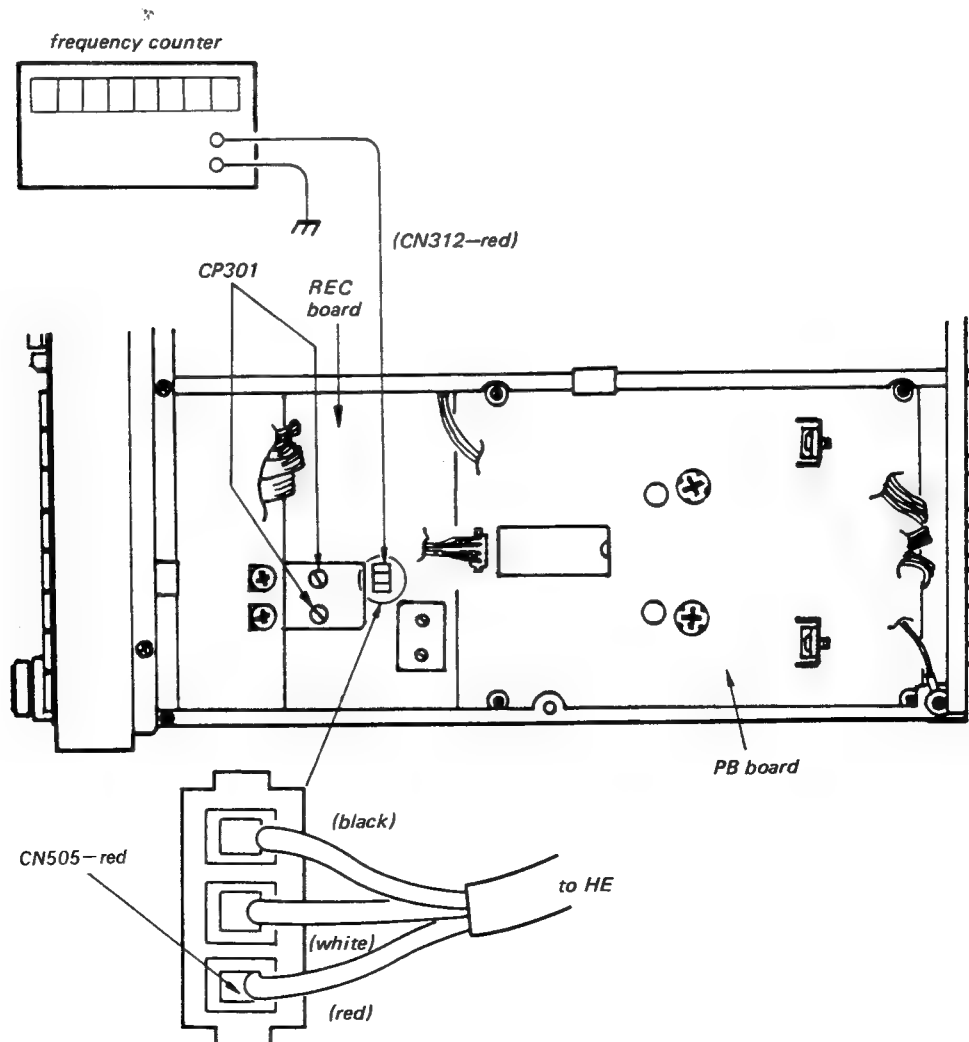
Procedure:

1. Mode: record

metal tape
recorded portion



2. Connect the frequency counter lead, to the erase head connecting terminal. Adjust CP 501 so that the reading on the frequency counter is 105 kHz (within 104 to 106 kHz).



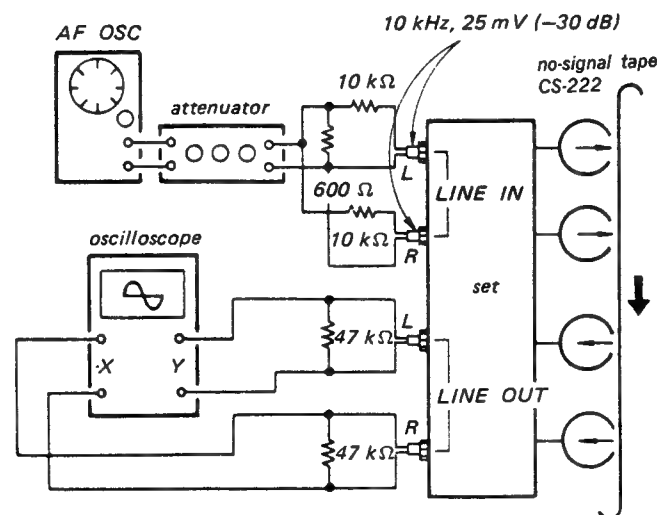
Record Head Azimuth Adjustment

Setting:

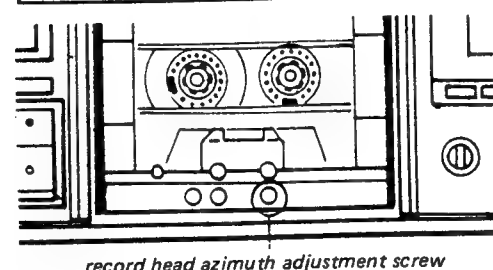
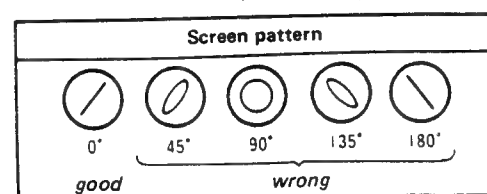
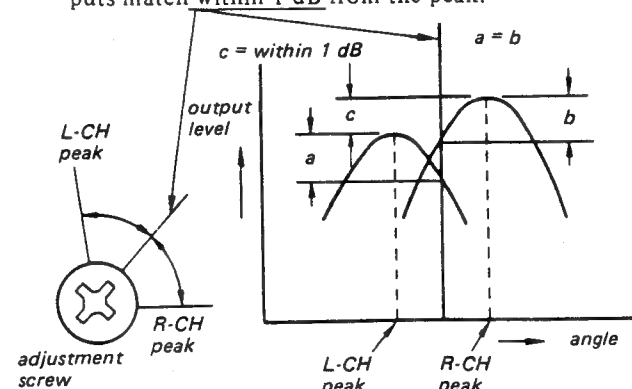
REC LEVEL knob: standard record position
(See page 7.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust the record head azimuth adjustment screw so that the phase difference is 0° (the difference between L-CH and R-CH is within 5°), and outputs match within 1 dB from the peak.



record head azimuth adjustment screw

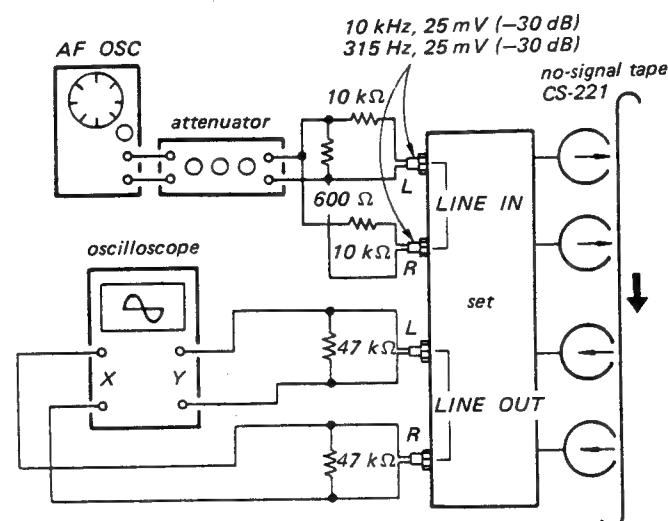
Record Bias Adjustment

Setting:

REC LEVEL knob: standard record position
(See page 7.)

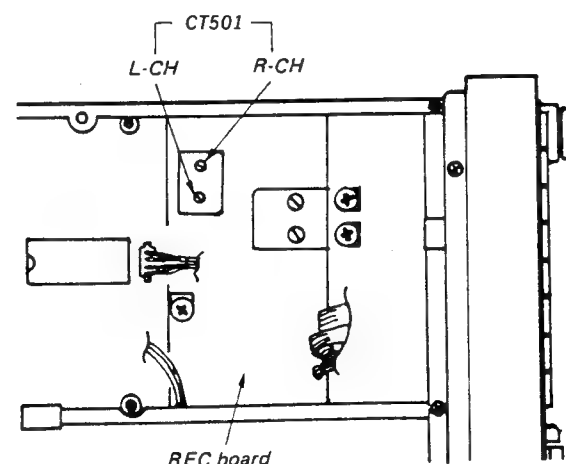
Procedure:

1. Mode: simultaneous REC/PB

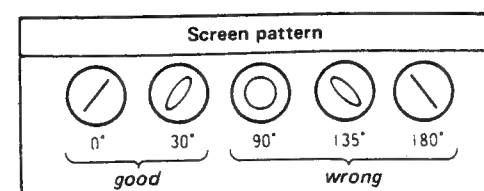


2. Adjust CT501 (L-CH, R-CH) to $0\text{ dB} \pm 0.5\text{ dB}$ playback level at 315 Hz and 10 kHz.

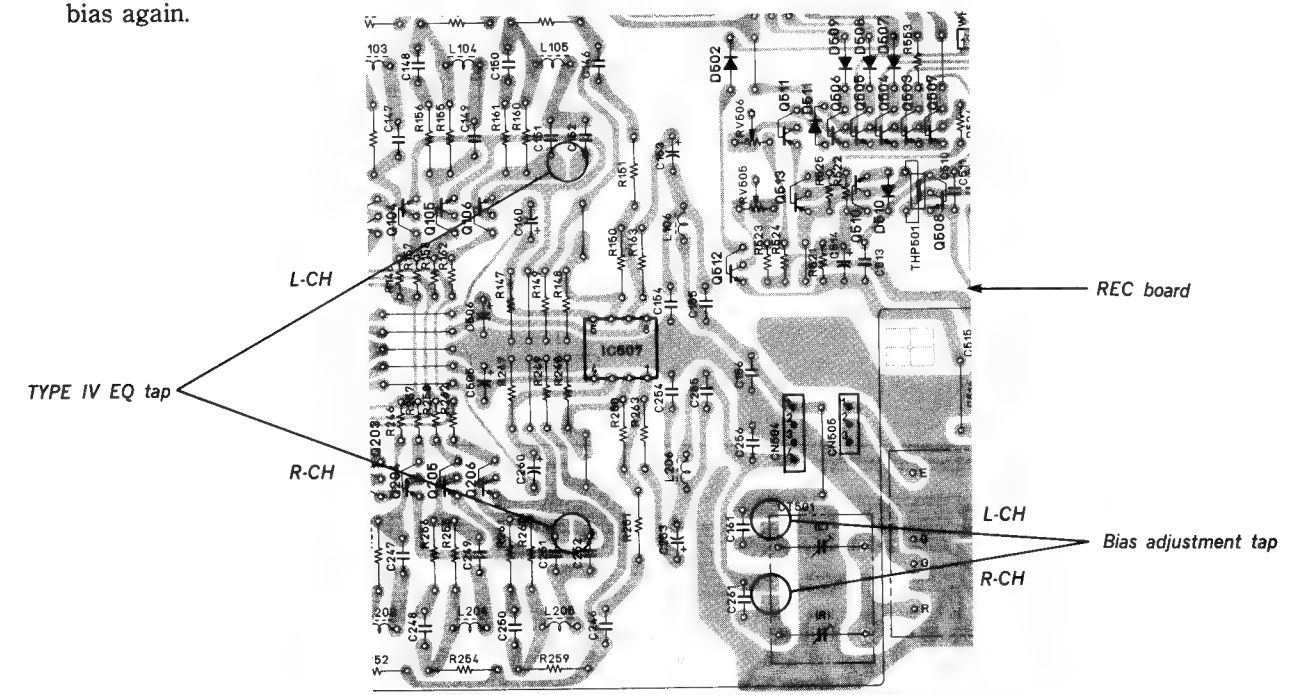
Adjustment Location: REC board



3. After the adjustment, confirm the phase at 10 kHz is 0° (the difference between L-CH and R-CH is within 30°). Repeat the record head azimuth adjustment and the record bias adjustment satisfy the specification again.



Note: For an adjusting trimmer, finish the adjustment within one rotation from the tightly closed state.
If more than one rotation is necessary, remove the bias adjusting tap, and adjust the bias again.



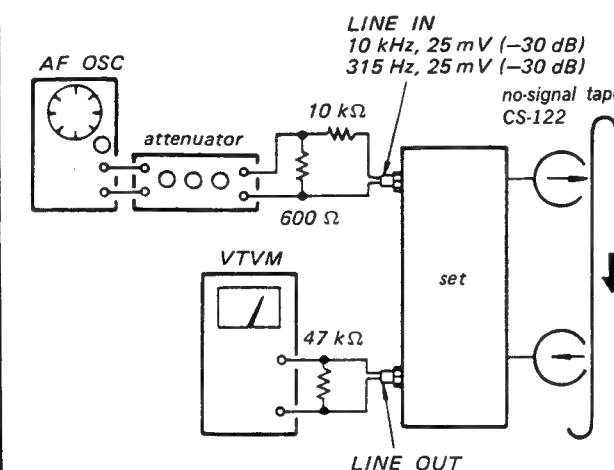
Normal Bias Adjustment

Setting:

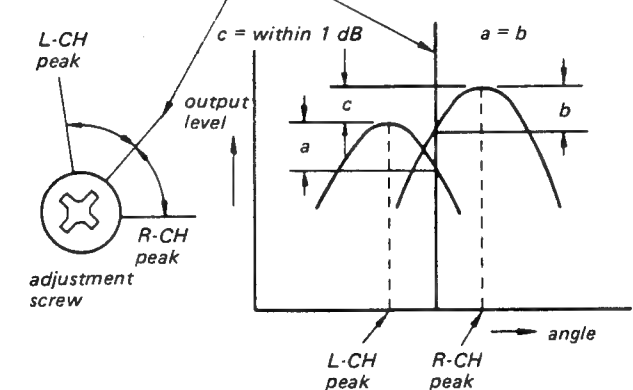
REC LEVEL knob: standard record position
(See page 7.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust RV505 to obtain the same playback level at 315 Hz and 10 kHz.
(The difference is within $0\text{ dB} \pm 0.5\text{ dB}$.)



METAL
Setting:
REC LEVEL

Procedure:
1. Mode



2. Adjust
playb
(The

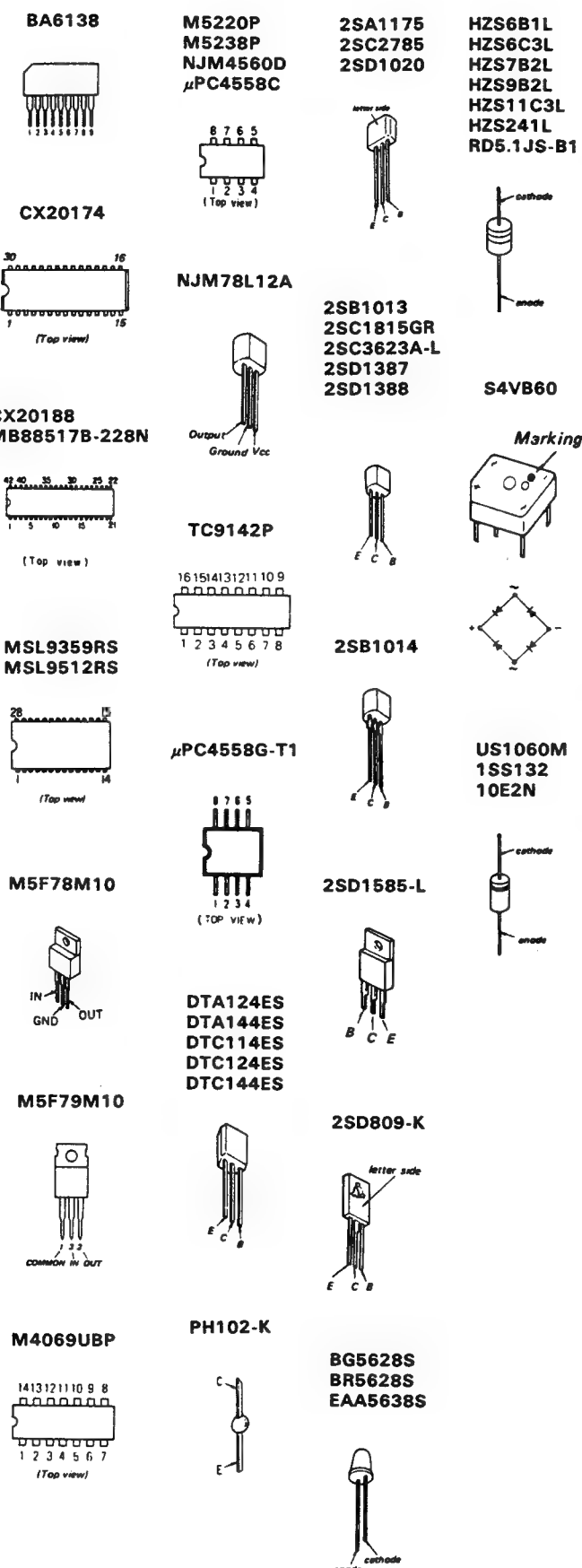
L-CH
peak

adjustme
screw

Adj

SECTION 4 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS



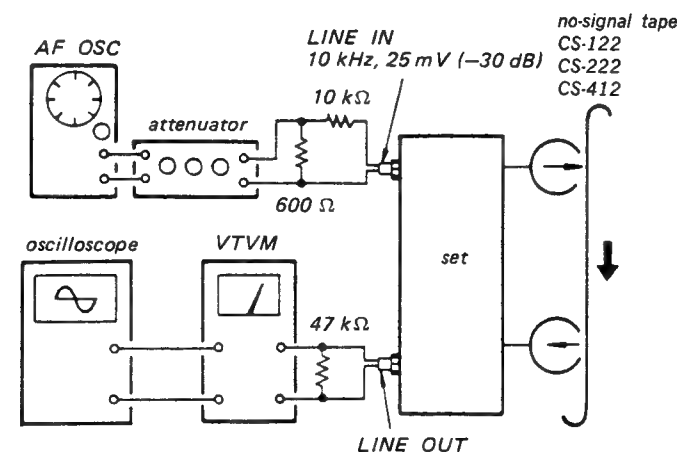
Record Level Adjustment

Setting:

REC LEVEL knob: standard record position
(See page 7.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust RV102 (L-CH) and RV202 (R-CH) to satisfy the specification.

Specification:

Tape CS-222	within 0.41 to 0.46 V (Within -5.5 to -4.5 dB)
Tape CS-122, 412	within 0.39 to 0.49 V (within -6 to -4 dB)

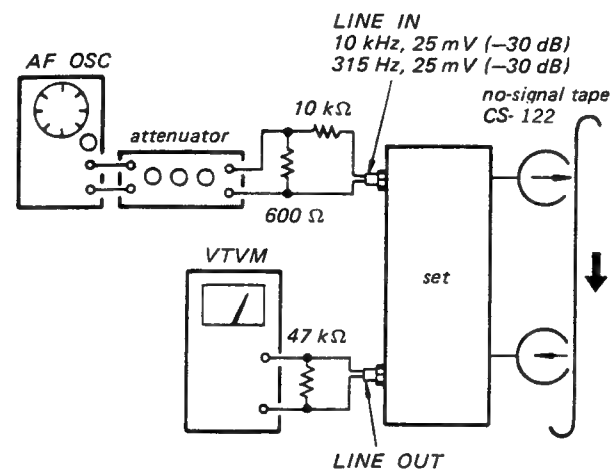
METAL Bias Adjustment

Setting:

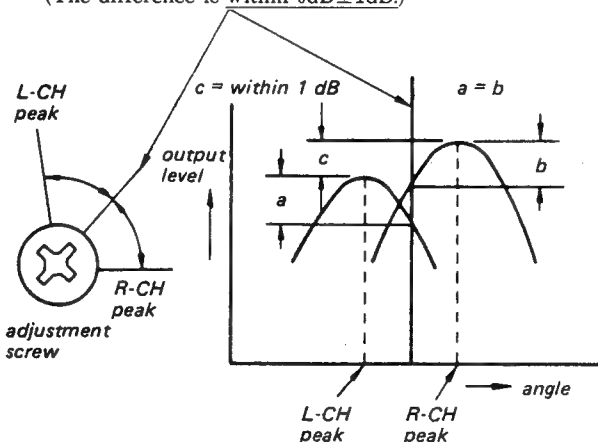
REC LEVEL Knob: Standard record position
(See page 7.)

Procedure:

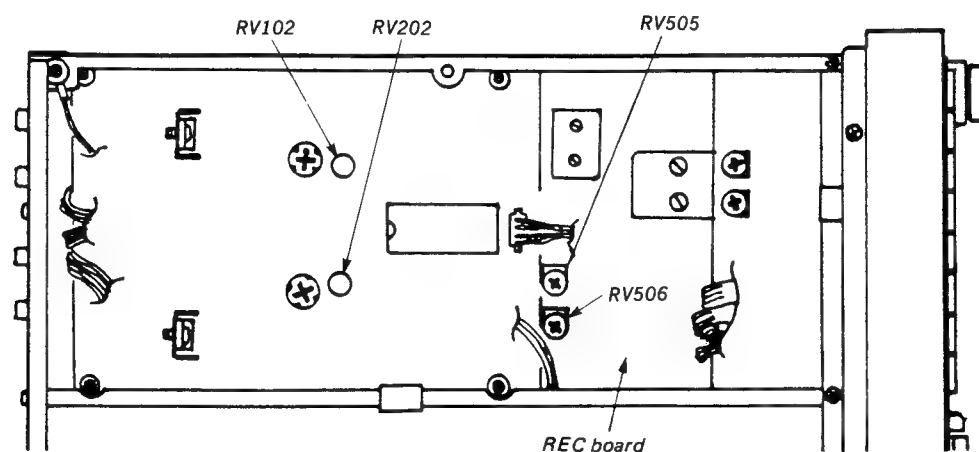
1. Mode: simultaneous REC/PB



2. Adjust RV506 and TYPE IV EQ tap to obtain the same playback level at 315kHz and 10kHz.
(The difference is within 0dB±1dB.)



Adjustment Location: REC board



4-2. PRINTED WIRING BOARD—AUDIO SECTION—
• Refer to page 16 for Semiconductor Lead Layouts.

• Semiconductor Location

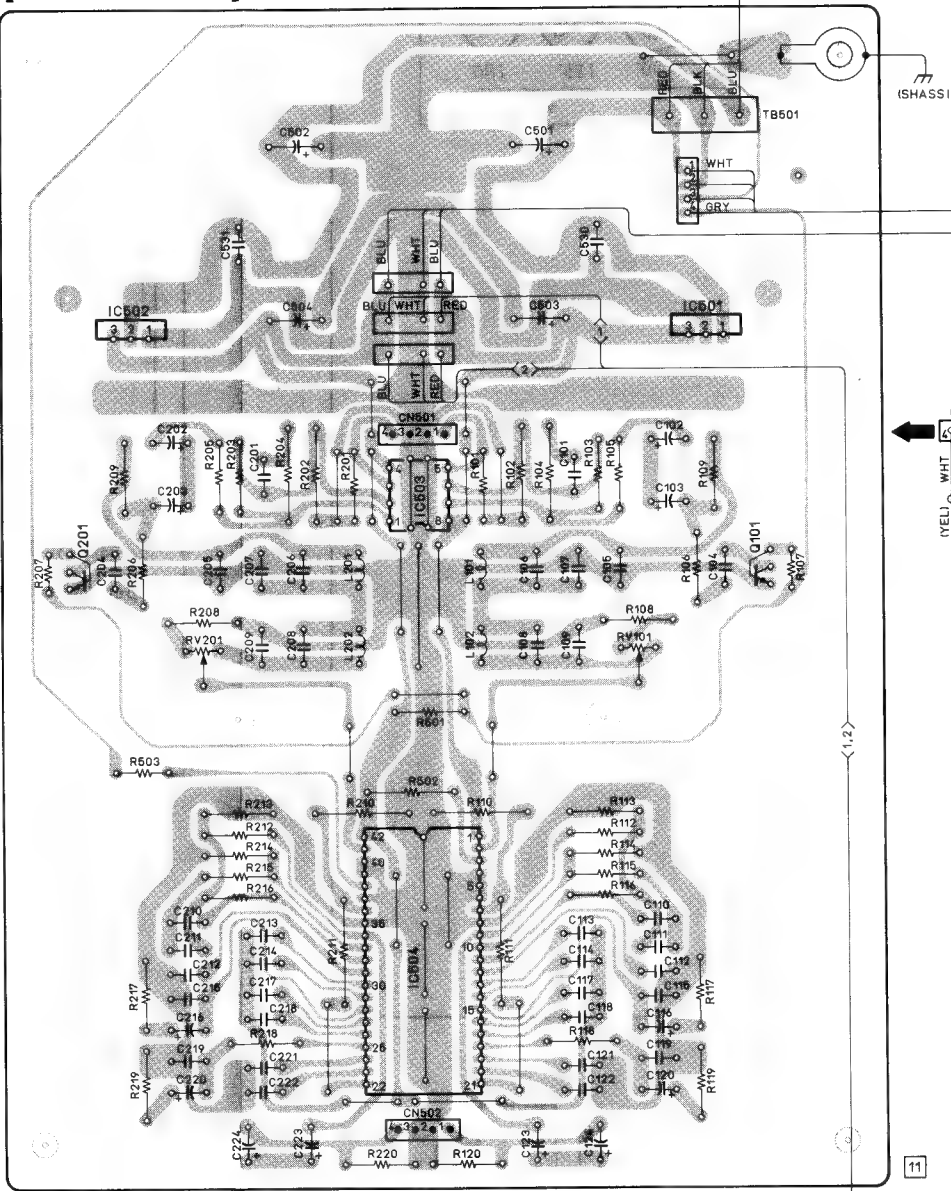
Ref. No.	Location	Ref. No.	Location
IC501	D-5	Q509	F-16
IC502	D-2	Q510	F-15
IC503	E-3	Q511	F-15
IC504	H-3	Q512	G-15
IC505	G-8	Q513	F-15
IC506	G-10	Q514	E-18
IC507	G-14	Q515	G-25
IC508	H-18	Q516	C-22
IC509	F-18	Q517	C-22
IC510	H-23	Q518	C-23
IC511	E-8	Q519	C-22
IC512	C-25	Q520	C-22
		Q521	C-23
Q101	F-5	Q1001	I-5
Q102	G-12	Q1002	J-4
Q103	F-13		
Q104	F-13	D501	E-11
Q105	F-13	D502	F-15
		D503	E-13
Q106	F-13	D504	E-13
Q201	F-1	D505	E-15
Q202	H-12		
Q203	H-13	D506	E-15
Q204	H-13	D507	E-16
		D508	E-15
Q205	H-13	D509	F-15
Q206	H-13	D510	F-16
Q501	E-11		
Q502	E-9	D511	F-15
Q503	F-16	D512	F-17
		D513	H-26
Q504	F-16	D514	B-22
Q505	F-15	D515	B-22
Q506	F-15	D516	C-24
Q507	F-16		
Q508	F-16		

Note:

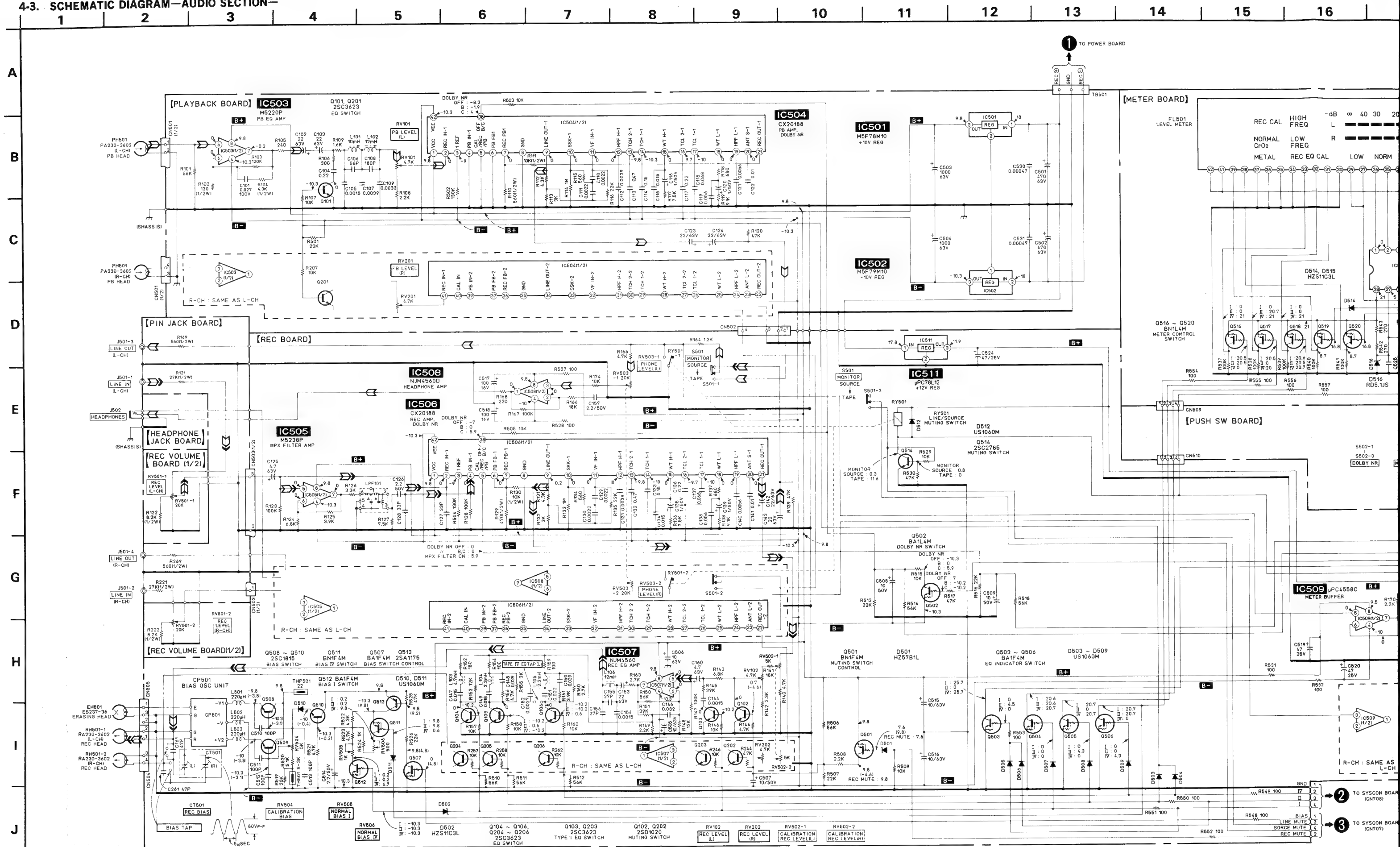
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.

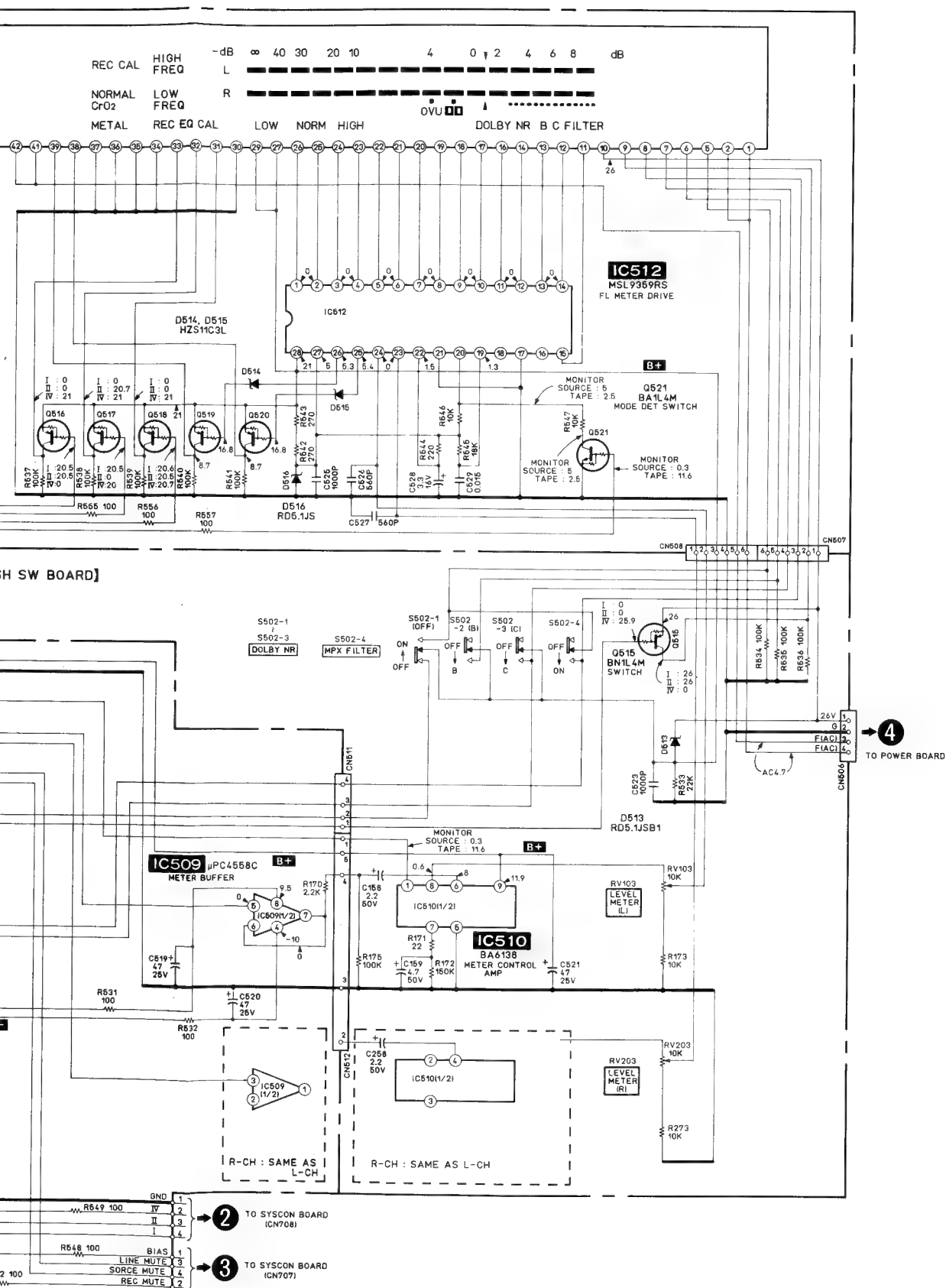
A
B
C
D
E
F
G
H
I
J
K

[PLAYBACK BOARD]



4-3. SCHEMATIC DIAGRAM—AUDIO SECTION—

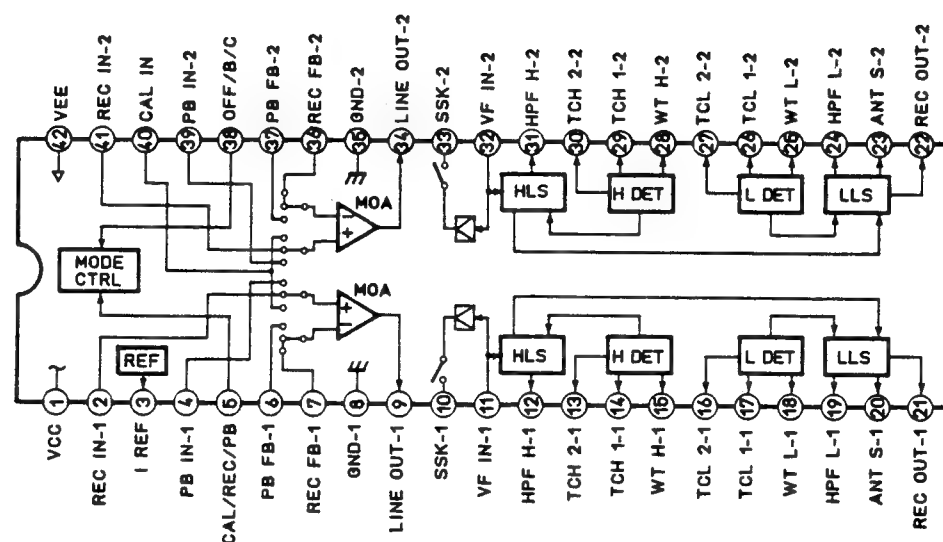




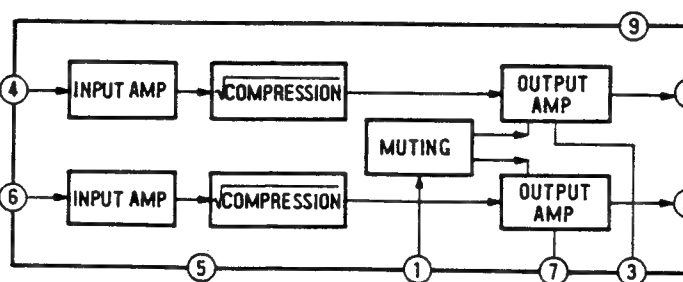
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- B+** : B+ Line
- B-** : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: STOP
- (): REC
- I : NORMAL
- II : C.O.
- III : METAL
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ▷** : PB
- ▷▷** : REC

IC504 CX20188



IC510 BA6138



4-4. PRINTED WIRING BOARD—SYSTEM CONTROL SECTION—

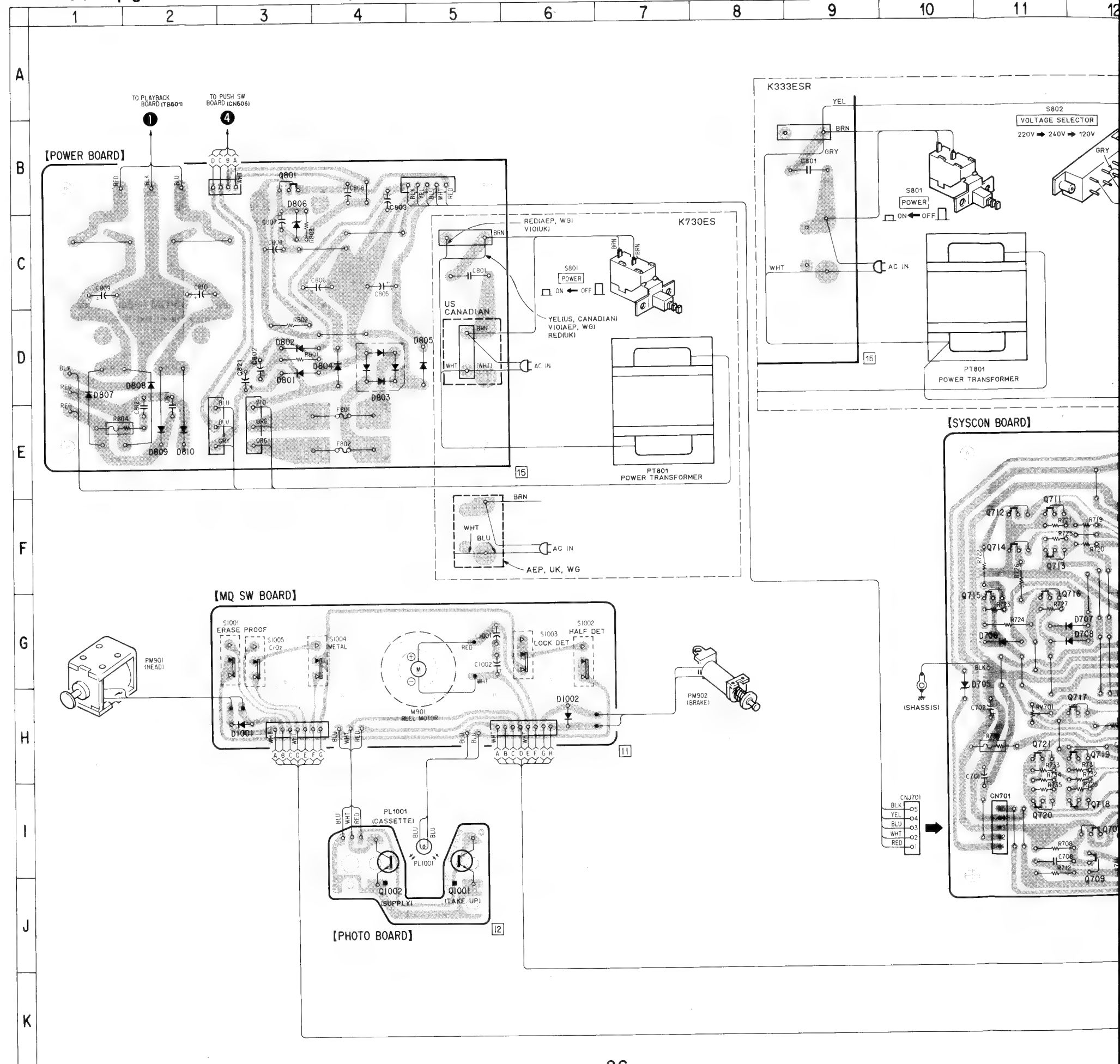
• Refer to page 16 for Semiconductor Lead Layouts.

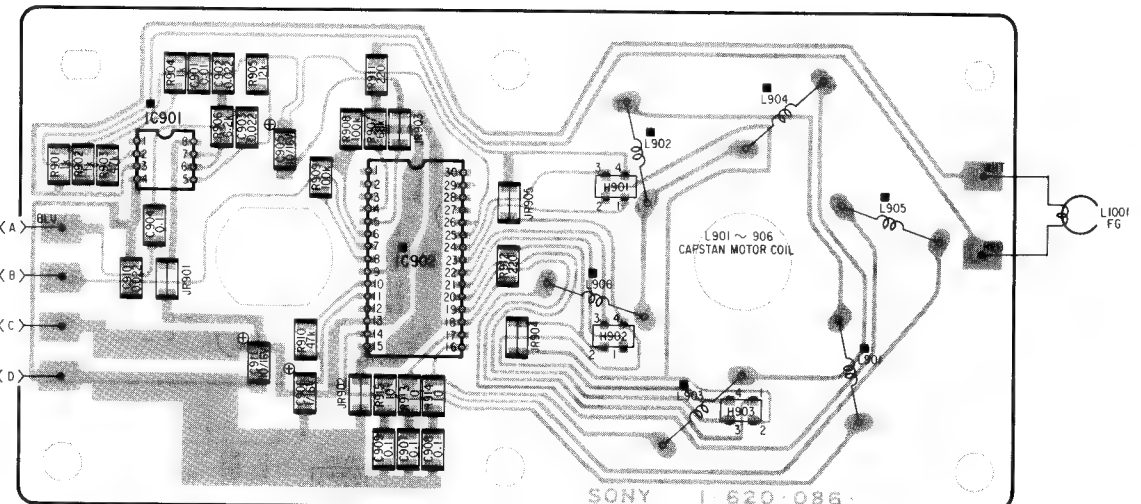
• Semiconductor Location

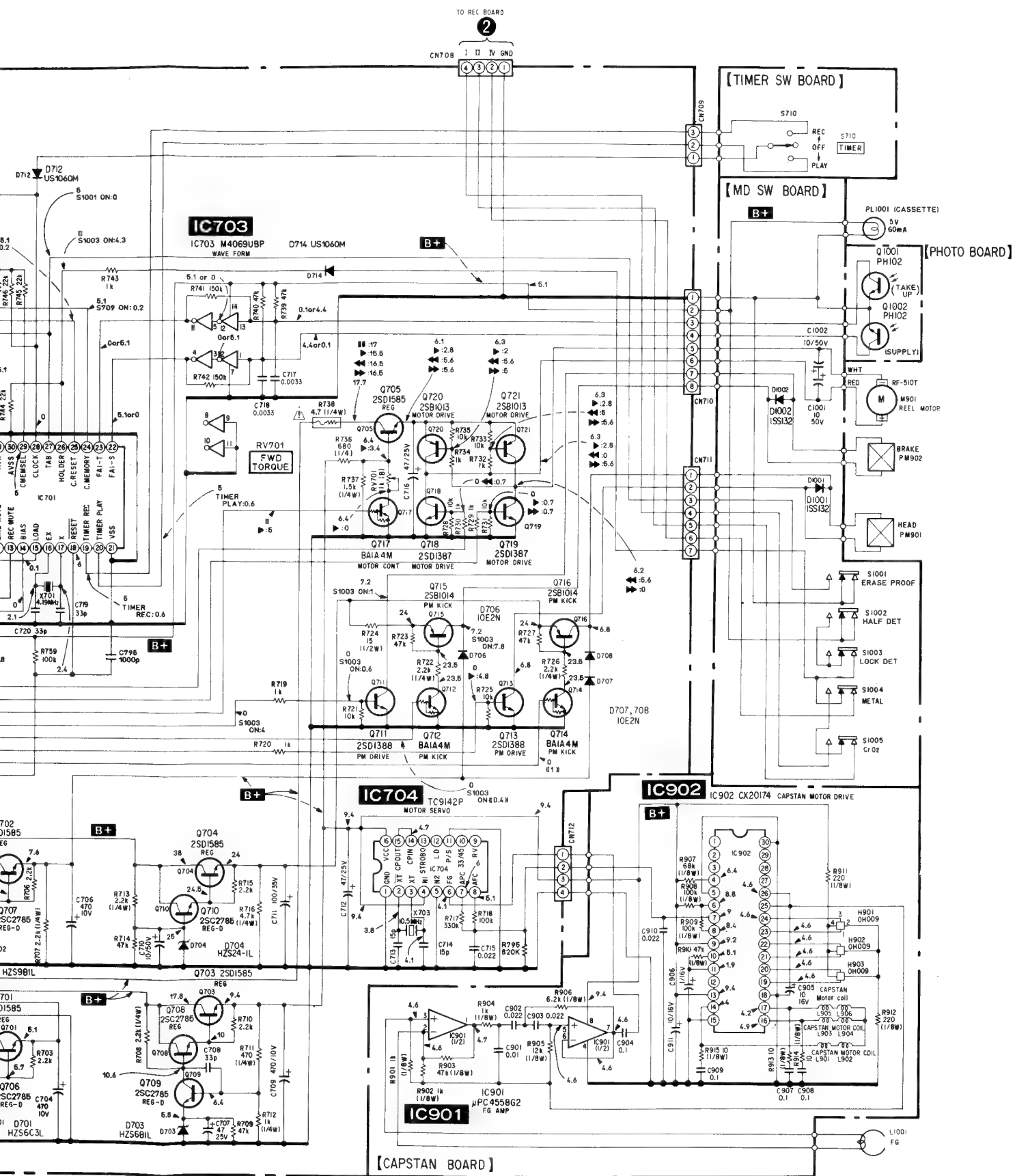
Ref. No.	Location	Ref. No.	Location
IC701	F-16	Q722	H-16
IC702	H-15	Q801	B-3
IC703	I-16		
IC704	I-17	D701	E-14
IC705	D-14	D702	G-13
IC706	F-23	D703	I-13
IC901	I-22	D704	G-14
IC902	J-23	D705	H-10
		D706	G-11
Q701	F-13	D707	G-12
Q702	G-13	D708	G-12
Q703	I-13	D709	C-20
Q704	G-13	D710	C-22
Q705	H-13	D711	B-22
Q706	F-13	D712	F-17
Q707	G-13	D713	E-23
Q708	I-12	D714	H-16
Q709	J-12	D801	D-3
Q710	G-13	D802	D-3
Q711	F-11	D803	D-4
Q712	F-11	D804	D-4
Q713	F-11	D805	D-5
Q714	F-11	D806	B-3
Q715	G-11	D807	D-1
Q716	G-11	D808	D-2
Q717	H-12	D809	E-2
Q718	I-12	D810	E-2
Q719	H-12	D1001	H-3
Q720	I-11	D1002	H-6
Q721	H-11		

Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.







Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : fusible resistor.
- **B+** : B+ Line
- **B-** : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: STOP
(()) : Momentary voltage in power switch ON.
- : PLAY : PAUSE
 : FF : REW : REC
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

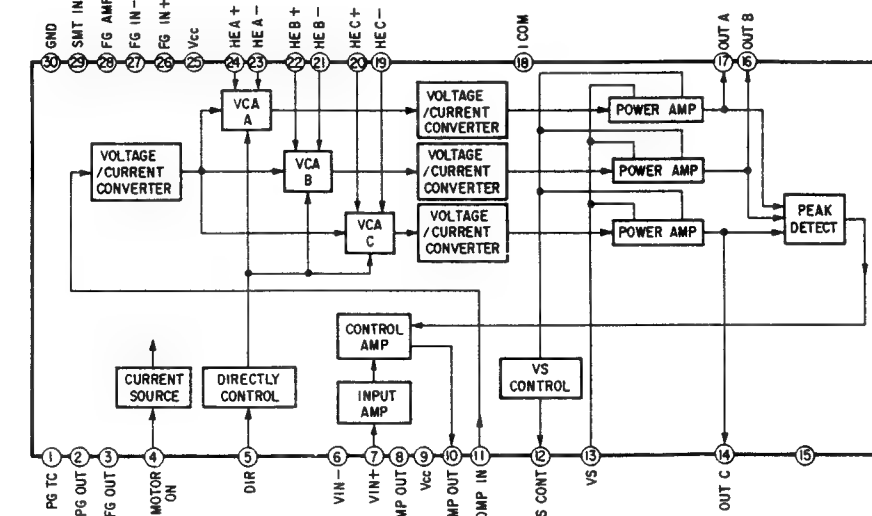
Note:

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

IC902 CX20174



SECTION 5
EXPLODED VIEWS



TC-K333ESR/K730ES


TC-K333ESR/K730ES

NOTE:

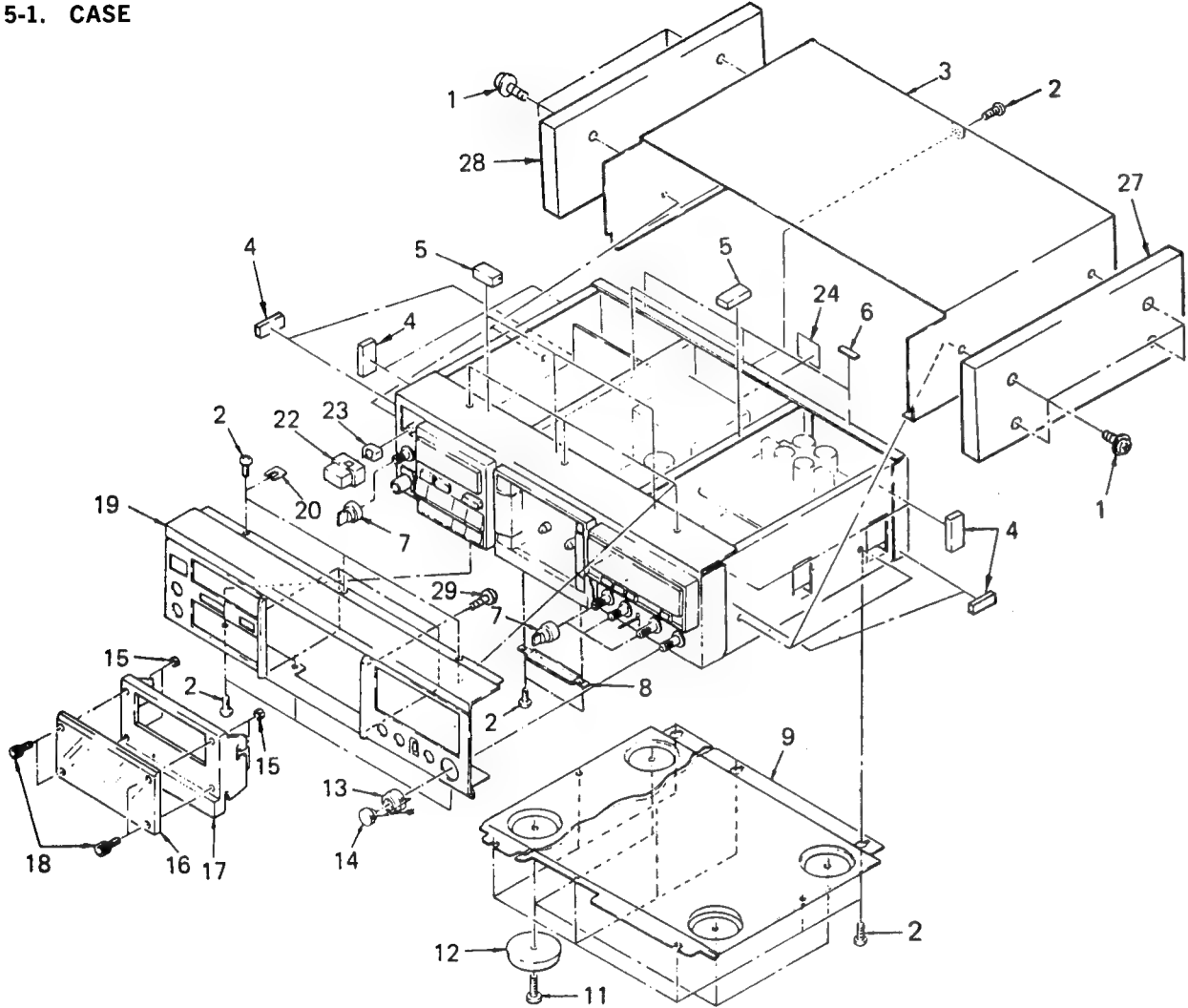
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

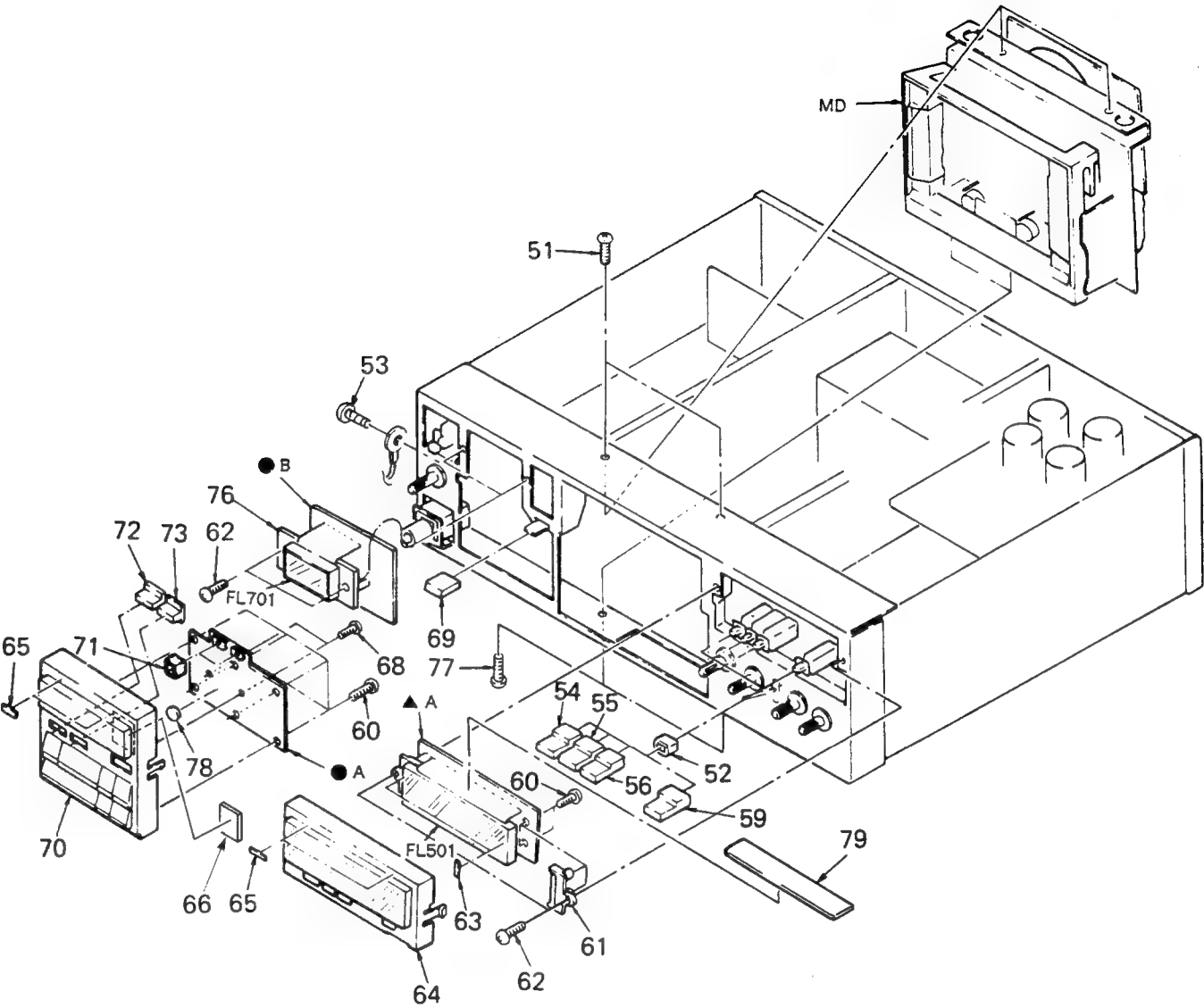
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CASE





No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	4-820-330-31 4-885-979-11	(UK)...SCREW, BW, PLUS MINUS (EXCEPT UK)...SCREW (4X25)		19	X-3304-946-1 X-3304-949-1 X-3304-951-1	(E).....PANEL ASSY, FRONT (US,Canadian)...PANEL ASSY, FRONT (AEP,UK).....PANEL ASSY, FRONT	
2	7-682-547-09	SCREW +BV 3X6, S TIGHT		20	3-544-028-21	SPACER	
3	3-318-660-11	CASE		22	4-908-046-01	KNOB, SQUARE	
4	9-911-841-XX	CUSHION		23	4-864-307-00	RING	
5	9-911-843-XX	CUSHION, FLYWHEEL		24	*3-350-430-01 *3-350-431-01 *3-350-432-01 *3-350-433-01	(E).....LABEL, MODEL NUMBER (US,Canadian)...LABEL, MODEL NUMBER (AEP).....LABEL, MODEL NUMBER (UK).....LABEL, MODEL NUMBER	
6	9-911-837-XX	CUSHION (B), FILTER		27	X-3304-936-1	(US,Canadian,AEP,E) ...PLATE (RIGHT) ASSY, SIDE	
7	3-304-929-11	KNOB, HEADPHONE			X-3304-948-1	(WG)....PLATE (RIGHT) ASSY, SIDE	
8	3-304-962-00	COVER, MD		28	X-3304-937-1	(US,Canadian,AEP,E) ...PLATE (LEFT) ASSY, SIDE	
9	*3-350-419-01	BOARD, BOTTOM			X-3304-947-1	(WG)....PLATE (LEFT) ASSY, SIDE	
10	3-703-685-21	SCREW (+BV 3X8)		29	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
11	7-682-562-09	SCREW +B 4X10					
12	X-3304-944-1	FOOT ASSY					
13	X-3304-924-1	KNOB (LEFT) ASSY, REC					
14	X-3304-925-1	KNOB (RIGHT) ASSY, REC					
15	7-622-207-05	N 2.6, TYPE 2					
16	3-350-410-01	WINDOW, CASSETTE					
17	3-350-415-11	LID, CASSETTE					
18	7-683-412-05	BOLT, HEXAGON SOCKET 2.6X6					

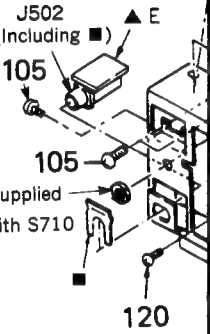
5-2. FRONT PANEL



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-682-547-09	SCREW +BV 3X6, S TIGHT		66	*3-318-670-01	COVER, RAY CATCHER	
52	4-864-307-00	RING		68	7-621-772-50	SCREW +B 2X10	
53	7-685-870-09	SCREW +BVTT 3X5 (S)		69	3-318-643-01	BUTTON, EJECT	
54	3-318-652-41	PUSH BUTTON		70	X-3304-927-2 X-3304-950-1	(WG)...ESCUTCHEON ASSY, CONTROL BUTTON (US,Canadian,AEP,UK,E) ...ESCUTCHEON ASSY, CONTROL BUTTON	
55	3-318-652-51	PUSH BUTTON		71	*3-311-546-00	CUSHION, SWITCH, MONITOR	
56	3-318-652-61	PUSH BUTTON		72	3-311-506-01	BUTTON, COUNTER	
59	3-318-652-01	PUSH BUTTON		73	3-311-506-11	BUTTON, COUNTER	
60	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S		76	*3-318-651-01	BRACKET, COUNTER	
61	*3-318-632-01	BRACKET, METER		77	7-685-870-01	SCREW +BVTT 3X5 (S)	
62	7-685-861-09	SCREW +BVTT 2.6X5 (S)		78	*3-312-975-01	SPACER	
63	9-911-837-XX	CUSHION (B), FILTER		79	9-911-863-XX	SPACER	
64	X-3304-933-1	ESCUTCHEON ASSY, METER		FL501	1-519-497-11	INDICATOR TUBE, FLUORESCENT	
65	3-553-566-00	CUSHION		FL701	1-519-409-11	INDICATOR TUBE, FLUORESCENT (COUNTER)	

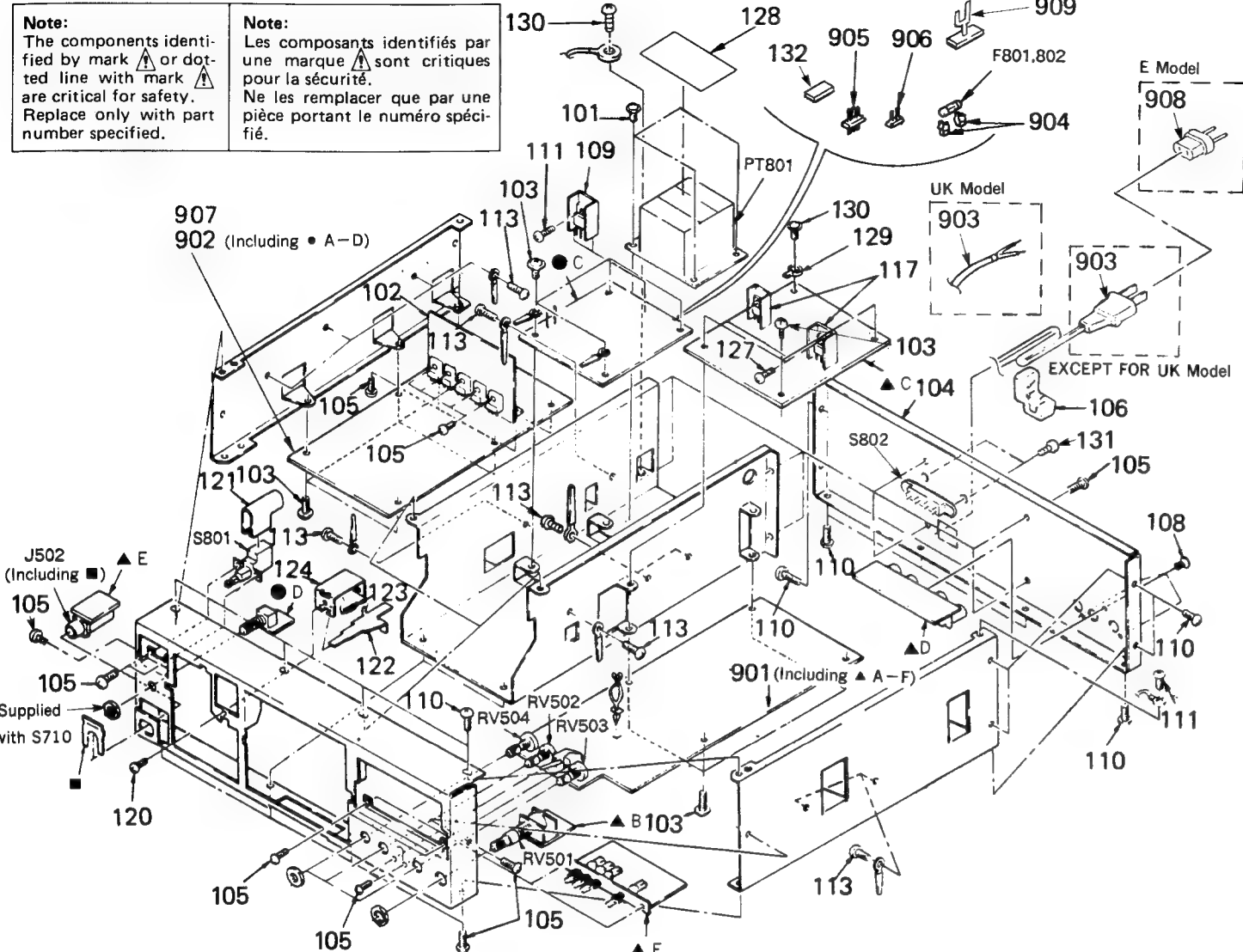
5-3. CHASSIS

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks
101	7-682-647-09		
102	*3-304-987-01		
103	4-886-821-01		
104	*3-318-658-11		
105	7-682-547-09		
106	4-916-783-01		
108	3-646-090-11		
109	*4-861-002-00		
110	3-703-685-21		
111	7-682-547-04		
113	7-685-870-01		
117	*4-363-146-00		
120	7-685-861-09		
121	3-575-524-00		
122	*3-318-628-01		
123	3-534-238-XX		
124	*3-575-502-00		
127	7-682-147-15		
128	*3-318-666-01		
129	4-870-539-00		
130	4-886-821-11		
131	7-685-646-79		
132	*3-701-947-13		
901	*A-2010-295-A		

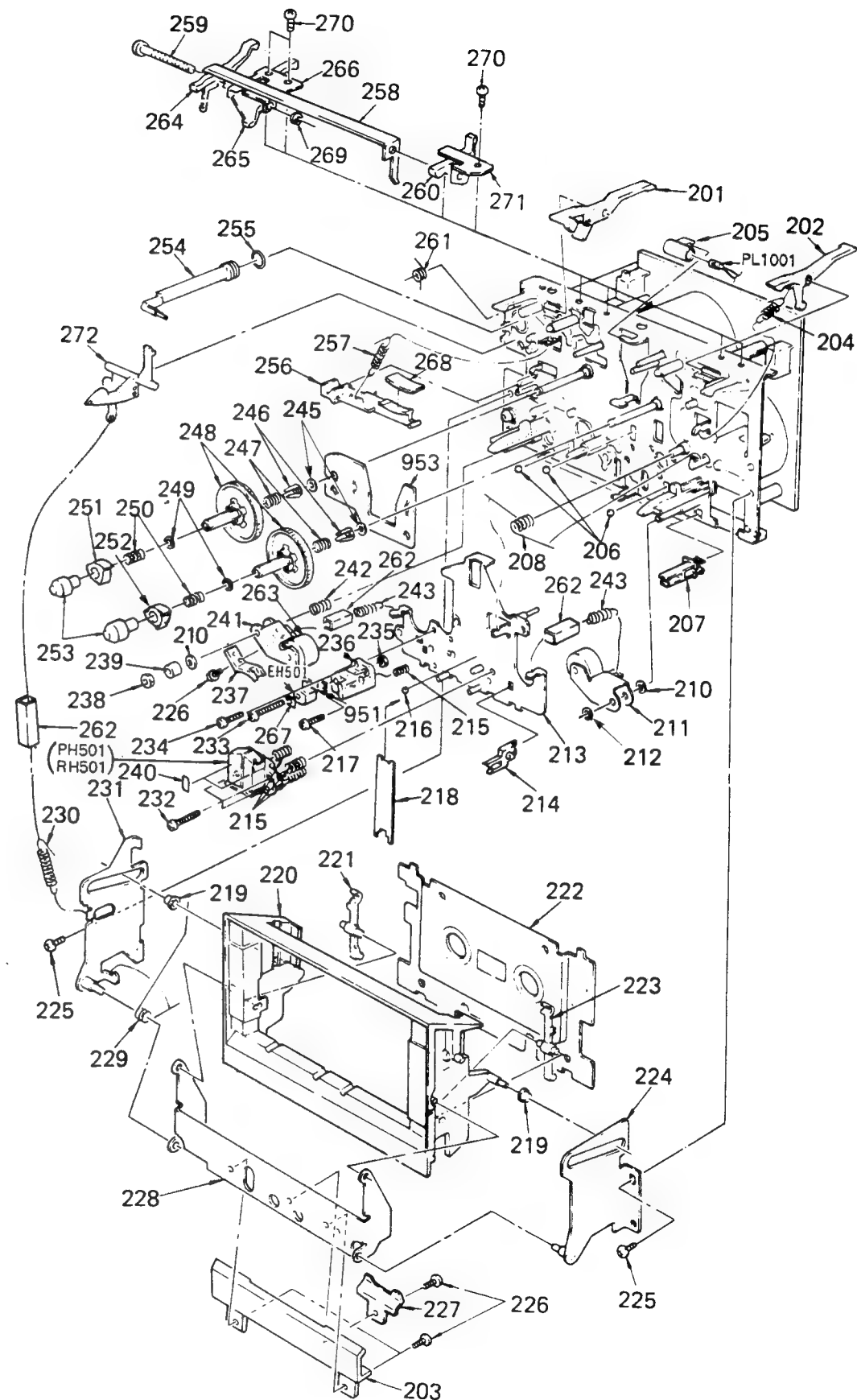
5-3. CHASSIS



No.	Part No.	Description	Remarks
101	7-682-647-09	SCREW +PSW 3X6	
102	*3-304-987-01	HEAT SINK	
103	4-886-821-01	SCREW, S TIGHT, +PTTW 3X6	
104	*3-318-658-11	PLATE, JACK	
105	7-682-547-09	SCREW +BV 3X6, S TIGHT	
106	4-916-783-01	BUSHING, CORD	
108	3-646-090-11	RIVET, NYLON	
109	*4-861-002-00	HEAT SINK	
110	3-703-685-21	SCREW (+BV 3X8)	
111	7-682-547-04	SCREW +BVTT 3X6 (S)	
113	7-685-870-01	SCREW +BVTT 3X5 (S)	
117	*4-363-146-00	HEAT SINK, V.OUT	
120	7-685-861-09	SCREW +BVTT 2.6X5 (S)	
121	3-575-524-00	COVER, POWER SWITCH	
122	*3-318-628-01	SLIDER, EJECT	
123	3-534-238-XX	SPRING, TENSION	
124	*3-575-502-00	BRACKET, EJECT	
127	7-682-147-15	SCREW, TR	
128	*3-318-666-01	LABEL, TRANSFORMER	
129	4-870-539-00	PLATE, GROUND	
130	4-886-821-11	SCREW, S TIGHT, +PTTW 3X6	
131	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
132	*3-701-947-13	(AEP,UK,E)...LABEL (T1.6A), FUSE	
901	*A-2010-295-A	PC BOARD ASSY, AUDIO	

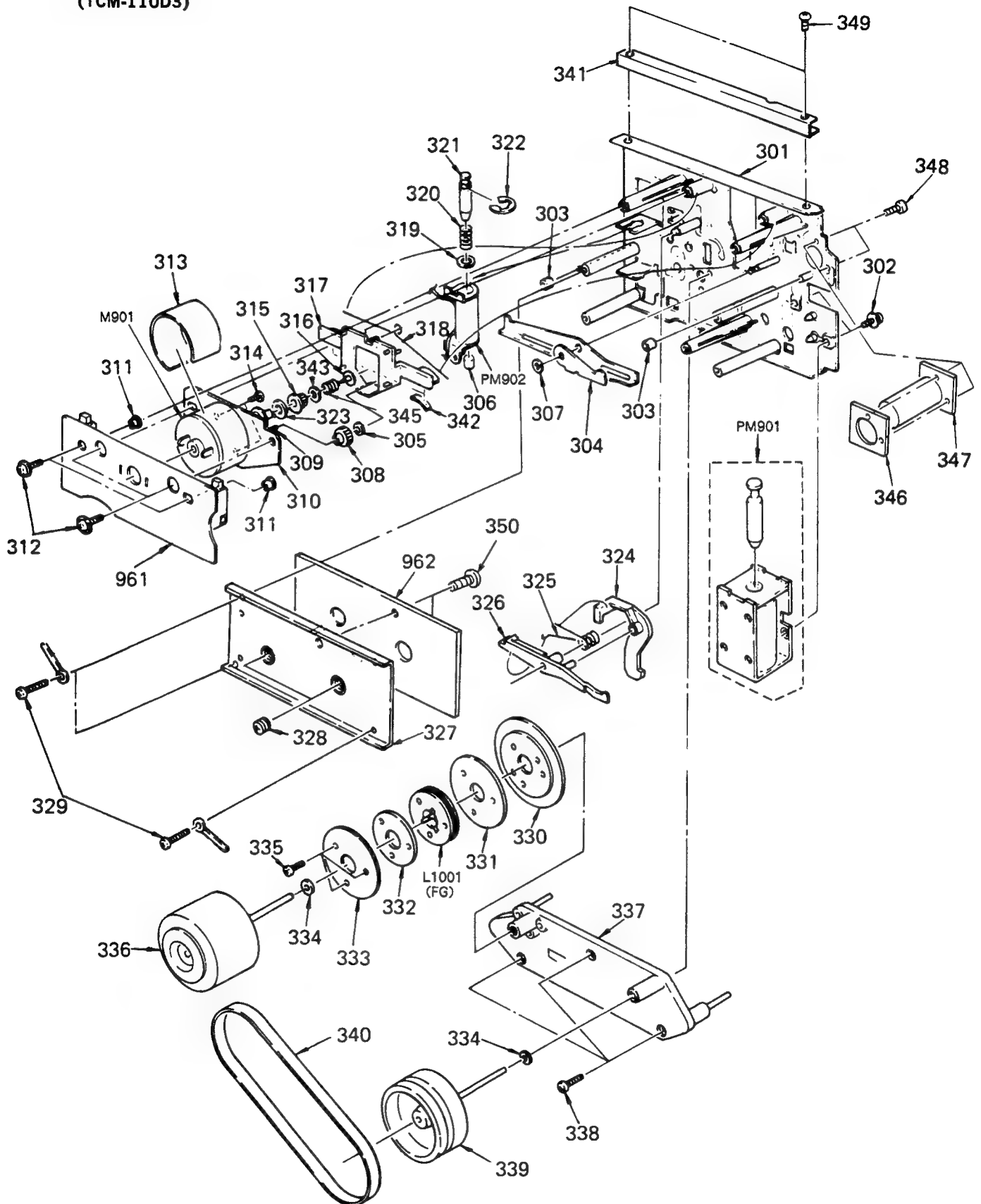
No.	Part No.	Description	Remarks
902	*A-2056-449-A	(US,Canadian,E) ...PC BOARD ASSY, SYSTEM CONTROL	
	*A-2056-450-A	(AEP,UK)...PC BOARD ASSY, SYSTEM CONTROL	
903	△.1-555-795-11	(AEP).....CODE, POWER	
	△.1-556-035-00	(UK).....CODE, POWER	
	△.1-559-297-21	(E).....CODE, POWER	
	△.1-559-479-11	(US,Canadian)...CODE, POWER	
904	△.1-533-162-00	HOLDER, FUSE	
905	*1-535-116-00	TERMINAL	
906	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
907	*1-620-540-11	PC BOARD, SYSTEM CONTROL	
908	△.1-526-565-00	(E)...AC PLUG ADAPTOR	
909	1-535-416-01	(AEP,UK)...TERMINAL	
F801	△.1-532-259-00	(AEP,UK,E).....FUSE, TIME-LAG (1.6A)	
F801	△.1-532-742-11	(US,Canadian)...FUSE, GLASS TUBE (1.6A)	
F802	△.1-532-259-00	(AEP,UK,E).....FUSE, TIME-LAG (1.6A)	
F802	△.1-532-742-11	(US,Canadian)...FUSE, GLASS TUBE (1.6A)	
PT801	△.1-448-948-11	(US,Canadian)...TRANSFORMER, POWER	
PT801	△.1-448-949-11	(AEP,UK).....TRANSFORMER, POWER	
PT801	△.1-449-005-11	(E).....TRANSFORMER, POWER	
S801	△.1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)	
S802	△.1-570-307-11	(E)...SWITCH, VOLTAGE CHANGE	

5-4. MECHANISM SECTION (1) (TCM-110D3)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	3-575-449-00	LEVER, DETECTION, REC		242	3-537-213-00	SPRING, COMPRESSION	
202	3-575-331-00	LEVER, DETECTION, HALF		243	3-575-481-00	SPRING, TENSION	
203	*3-318-406-11	PLATE, ORNAMENTAL, HEAD		245	3-701-439-11	WASHER	
204	3-575-358-00	SPRING, TENSION		246	3-318-405-01	RETAINER, SPRING	
205	3-575-328-00	HOLDER, LAMP		247	3-571-850-11	SPRING, COMPRESSION	
206	7-671-112-11	BALL, STEEL		248	3-318-438-01	TABLE, REEL	
207	*3-575-378-00	GUIDE, LEAD		249	3-558-708-11	WASHER, STOPPER	
208	3-575-351-00	SPRING		250	3-576-921-00	SPRING, COMPRESSION	
210	3-701-439-21	WASHER		251	3-531-760-00	CLAW, REEL SPINDLE	
211	X-3575-380-1	PINCH LEVER (T) ASSY		252	3-558-339-00	CLAW (R), REEL TABLE	
212	7-624-105-04	STOP RING 2.3, TYPE -E		253	3-576-983-01	CAP, REEL	
213	X-3575-323-0	CHASSIS ASSY, HEAD		254	3-575-459-00	PISTON	
214	*3-304-963-00	RETAINER, LEAD		255	3-575-392-00	RING, PISTON	
215	3-564-121-00	SPRING, COMPRESSION		256	X-3575-310-0	LEVER ASSY, TENSION, BACK	
216	7-671-113-11	BALL, STEEL		257	3-307-381-00	SPRING, TENSION	
217	7-621-775-20	SCREW +B 2.6X5		258	*3-306-279-00	LEVER, ERASING PROTECTION	
218	*3-575-377-00	SPRING		259	*3-306-281-00	SHAFT, DETECTION LEVER	
219	3-575-348-00	ROLLER, GUIDE, THREADING		260	*3-306-282-00	LEVER, REC DETECTION, REVERSE	
220	3-575-355-31	HOLDER, CASSETTE		261	3-318-408-01	SPRING	
221	3-555-114-00	SPRING (LEFT)		262	9-9J11-815-02	CUSHION	
222	X-3575-399-1	PLATE ASSY, ORNAMENTAL		264	3-575-438-00	LEVER, DETECTION	
223	3-555-113-00	SPRING (RIGHT)		265	3-575-446-00	LEVER, DETECTION, METAL	
224	*X-3575-339-0	PLATE (RIGHT) ASSY, FULCRUM		266	*3-575-440-00	BRACKET, LEVER, DETECTION	
225	7-621-770-87	SCREW +PTT 2.6X5 (S)		267	3-318-433-01	SPRING	
226	7-621-772-10	SCREW +B 2X4		268	3-575-346-01	FELT, BREKE	
227	3-304-639-00	PLATE, SHIELD, HEAD		269	7-624-104-04	STOP RING 2.0, TYPE -E	
228	3-306-215-00	LEVER, FULCRUM, HOLDER		270	7-685-870-01	SCREW +BVTT 3X5 (S)	
229	3-575-356-00	SPRING		271	*X-3575-364-0	BRACKET ASSY, LEVER	
230	3-575-364-00	SPRING, TENSION		272	3-575-448-00	LEVER, LOCK	
231	*X-3575-338-0	PLATE (LEFT) ASSY, FULCRUM		951	*1-608-268-00	PC BOARD, ERASE HEAD	
232	7-621-771-06	SCREW, LOCK		953	*1-603-823-00	PC BOARD, PHOTO	
233	7-621-772-88	SCREW +B 2X16		EH501	1-543-358-11	HEAD, MAGNETIC (ERASE)	
234	7-621-772-20	SCREW +B 2X5		PH501	8-825-770-51	HEAD, REC/PB RPA230-3602C	
235	7-622-205-05	NUT M2 TYPE2				(including RH501)	
236	*3-306-216-00	BRACKET, HEAD, ERASE		PL1001	1-518-313-00	LAMP, PILOT	
237	3-564-138-00	GUIDE (S), TAPE					
238	7-684-023-04	N 3, TYPE 2					
239	3-491-191-00	COLLAR					
241	X-3575-321-0	PINCH LEVER (S) ASSY					

5-5. MECHANISM SECTION (2)
(TCM-110D3)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
301	*X-3306-201-1	CHASSIS ASSY, MECHANICAL		328	3-489-073-00	SCREW, THRUST	
302	7-682-649-09	SCREW +PSW 3X10		329	7-682-647-09	SCREW +PS 3X6	
304	*3-306-260-00	LEVER, FWD		330	*3-310-831-01	PLATE, SHIELD, MOTOR	
305	3-558-708-01	WASHER, STOPPER		331	*3-576-810-00	PLATE, RETURN CIRCUIT	
306	3-575-416-11	ARBOR, FIXED		332	3-310-865-00	WASHER, INSULATING	
307	3-558-708-11	WASHER, STOPPER		333	3-576-961-11	PLATE, FG	
308	3-575-332-00	GEAR, FR		334	3-701-438-21	WASHER	
309	3-575-304-00	SHAFT, GEAR, FR		335	7-621-775-60	SCREW +B 2.6X12	
311	3-306-277-00	LIFTER, PC BOARD		336	X-3575-377-1	FLYWHEEL (TAKE-UP) ASSY	
312	7-685-646-79	SCREW, TOTSU PTPWH 3X8, TYPE2		337	X-3575-383-1	BASE ASSY, CAPSTAN	
313	3-306-209-00	PLATE (D), SHIELD, MOTOR		338	7-621-770-87	SCREW +PTT 2.6X5 (S)	
314	7-621-775-10	SCREW +B 2.6X4		339	X-3575-378-1	FLYWHEEL (SUPPLY) ASSY	
315	3-575-324-00	GEAR, LIMITER		340	3-576-812-00	BELT, CAPSTAN	
316	3-575-327-00	STOPPER		341	*3-318-437-01	BRACKET, MD	
317	*X-3575-342-0	PLATE ASSY, BRAKE		342	3-575-469-00	SHOE, BRAKE	
318	3-575-345-00	SPRING		343	3-701-441-11	WASHER	
319	3-701-444-11	WASHER, 6		344	3-701-748-00	CLAMP	
320	3-575-414-00	SPRING, COMPRESSION		345	3-575-487-01	SPRING, COMPRESSION	
321	3-575-415-11	ARBOR, MOVABLE		346	*3-318-439-01	BRACKET	
322	7-624-109-04	STOP RING 5.0, TYPE -E		347	*3-318-440-01	CYLINDER	
323	3-564-027-11	FELT, LIMITER		961	*1-620-542-11	PC BOARD, MD SWITCH	
324	3-575-318-00	LEVER, LOCK, TUNING		962	*1-620-086-11	PC BOARD, CAPSTAN	
325	3-575-458-00	SPRING		M901	X-3575-382-1	MOTOR ASSY, REEL	
326	3-575-460-00	LEVER, SELECT TUNE		PM901	1-454-333-00	SOLENOID, PLUNGER	
327	X-3306-202-1	RETAINER ASSY, THRUST		PM902	1-454-291-00	SOLENOID, PLUNGER	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...




The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*A-2010-295-A	PC BOARD ASSY, AUDIO	C128	1-162-211-31	CERAMIC 33PF 5% 50V
902	*A-2056-449-A	(US,Canadian,E) ...PC BOARD ASSY, SYSTEM CONTROL	C129	1-130-475-00	MYLAR 0.0022MF 5% 50V
	*A-2056-450-A	(AEP,UK)...PC BOARD ASSY, SYSTEM CONTROL	C130	1-130-475-00	MYLAR 0.0022MF 5% 50V
903	Δ 1-555-795-11	(AEP).....CODE, POWER	C131	1-130-478-00	MYLAR 0.0039MF 5% 50V
	Δ 1-556-035-00	(UK).....CODE, POWER	C132	1-136-173-00	FILM 0.47MF 5% 50V
	Δ 1-559-297-21	(E).....CODE, POWER	C133	1-136-167-00	FILM 0.15MF 5% 50V
	Δ 1-559-479-11	(US,Canadian)...CODE, POWER	C134	1-136-155-00	FILM 0.015MF 5% 50V
904	Δ 1-533-162-00	HOLDER, FUSE	C135	1-123-380-00	ELECT 1MF 20% 50V
905	*1-535-116-00	TERMINAL	C136	1-136-169-00	FILM 0.22MF 5% 50V
906	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	C137	1-136-163-00	FILM 0.068MF 5% 50V
907	*1-620-540-11	PC BOARD, SYSTEM CONTROL	C138	1-136-162-00	FILM 0.056MF 5% 50V
908	Δ 1-526-565-00	(E)...AC PLUG ADAPTOR	C139	1-123-380-00	ELECT 1MF 20% 50V
909	1-535-416-01	(AEP,UK)...TERMINAL	C140	1-130-480-00	MYLAR 0.0056MF 5% 50V
951	*1-608-268-00	PC BOARD, ERASE HEAD	C141	1-136-153-00	FILM 0.01MF 5% 50V
953	*1-603-823-00	PC BOARD, PHOTO	C142	1-124-929-11	ELECT 22MF 20% 63V
961	*1-620-542-11	PC BOARD, MD SWITCH	C143	1-124-929-11	ELECT 22MF 20% 63V
962	*1-620-086-11	PC BOARD, CAPSTAN	C144	1-130-473-00	MYLAR 0.0015MF 5% 50V
C101	1-130-893-00	FILM 0.027MF 3% 100V	C146	1-136-164-00	FILM 0.082MF 5% 50V
C102	1-124-929-11	ELECT 22MF 20% 63V	C147	1-136-155-00	FILM 0.015MF 5% 50V
C103	1-124-929-11	ELECT 22MF 20% 63V	C148	1-136-160-00	FILM 0.039MF 5% 50V
C104	1-136-169-00	FILM 0.22MF 5% 50V	C149	1-136-156-00	FILM 0.018MF 5% 50V
C105	1-130-473-00	MYLAR 0.0015MF 5% 50V	C150	1-136-160-00	FILM 0.039MF 5% 50V
C106	1-107-165-00	MICA 56PF 5% 500V	C151	1-136-157-00	FILM 0.022MF 5% 50V
C107	1-130-478-00	MYLAR 0.0039MF 5% 50V	C152	1-130-476-00	MYLAR 0.0027MF 5% 50V
C108	1-109-619-00	MICA 180PF 5% 500V	C153	1-124-929-11	ELECT 22MF 20% 63V
C109	1-130-477-00	MYLAR 0.0033MF 5% 50V	C154	1-130-473-00	MYLAR 0.0015MF 5% 50V
C110	1-130-475-00	MYLAR 0.0022MF 5% 50V	C155	1-107-157-00	MICA 27PF 5% 500V
C111	1-130-475-00	MYLAR 0.0022MF 5% 50V	C156	1-107-157-00	MICA 27PF 5% 500V
C112	1-130-478-00	MYLAR 0.0039MF 5% 50V	C157	1-124-767-00	ELECT 2.2MF 20% 50V
C113	1-136-173-00	FILM 0.47MF 5% 50V	C158	1-124-925-11	ELECT 2.2MF 20% 50V
C114	1-136-167-00	FILM 0.15MF 5% 50V	C159	1-124-927-11	ELECT 4.7MF 20% 50V
C115	1-136-155-00	FILM 0.015MF 5% 50V	C160	1-123-369-00	ELECT 4.7MF 20% 63V
C116	1-123-380-00	ELECT 1MF 20% 50V	C161	1-107-163-00	MICA 47PF 5% 500V
C117	1-136-169-00	FILM 0.22MF 5% 50V	C201	1-130-893-00	FILM 0.027MF 3% 100V
C118	1-136-163-00	FILM 0.068MF 5% 50V	C202	1-124-929-11	ELECT 22MF 20% 63V
C119	1-136-162-00	FILM 0.056MF 5% 50V	C203	1-124-929-11	ELECT 22MF 20% 63V
C120	1-123-380-00	ELECT 1MF 20% 50V	C204	1-136-169-00	FILM 0.22MF 5% 50V
C121	1-130-480-00	MYLAR 0.0056MF 5% 50V	C205	1-130-473-00	MYLAR 0.0015MF 5% 50V
C122	1-136-153-00	FILM 0.01MF 5% 50V	C206	1-107-165-00	MICA 56PF 5% 500V
C123	1-124-929-11	ELECT 22MF 20% 63V	C207	1-130-478-00	MYLAR 0.0039MF 5% 50V
C124	1-124-929-11	ELECT 22MF 20% 63V	C208	1-109-619-00	MICA 180PF 5% 500V
C125	1-123-369-00	ELECT 4.7MF 20% 63V	C209	1-130-477-00	MYLAR 0.0033MF 5% 50V
C126	1-124-767-00	ELECT 2.2MF 20% 50V	C210	1-130-475-00	MYLAR 0.0022MF 5% 50V
C127	1-107-159-00	MICA 33PF 5% 500V	C211	1-130-475-00	MYLAR 0.0022MF 5% 50V
			C212	1-130-478-00	MYLAR 0.0039MF 5% 50V



Ref.No.	Part No.	Description								
C213	1-136-173-00	FILM	0.47MF	5%	50V	C510	1-162-282-31	CERAMIC	100PF	10% 50V
C214	1-136-167-00	FILM	0.15MF	5%	50V	C511	1-162-282-31	CERAMIC	100PF	10% 50V
C215	1-136-155-00	FILM	0.015MF	5%	50V	C512	1-162-282-31	CERAMIC	100PF	10% 50V
C216	1-123-380-00	ELECT	1MF	20%	50V	C513	1-162-282-31	CERAMIC	100PF	10% 50V
C217	1-136-169-00	FILM	0.22MF	5%	50V	C514	1-124-925-11	ELECT	2.2MF	20% 50V
C218	1-136-163-00	FILM	0.068MF	5%	50V	C515	1-124-915-11	ELECT	10MF	20% 63V
C219	1-136-162-00	FILM	0.056MF	5%	50V	C516	1-124-915-11	ELECT	10MF	20% 63V
C220	1-123-380-00	ELECT	1MF	20%	50V	C517	1-123-333-00	ELECT	100MF	20% 16V
C221	1-130-480-00	MYLAR	0.0056MF	5%	50V	C518	1-123-333-00	ELECT	100MF	20% 16V
C222	1-136-153-00	FILM	0.01MF	5%	50V	C519	1-123-332-00	ELECT	47MF	20% 25V
C223	1-124-929-11	ELECT	22MF	20%	63V	C520	1-123-332-00	ELECT	47MF	20% 25V
C224	1-124-929-11	ELECT	22MF	20%	63V	C521	1-124-477-11	ELECT	47MF	20% 25V
C225	1-123-369-00	ELECT	4.7MF	20%	63V	C523	1-162-294-31	CERAMIC	0.001MF	10% 50V
C226	1-124-767-00	ELECT	2.2MF	20%	50V	C524	1-124-477-11	ELECT	47MF	20% 25V
C227	1-107-159-00	MICA	33PF	5%	500V	C525	1-162-294-31	CERAMIC	0.001MF	10% 50V
C228	1-162-211-31	CERAMIC	33PF	5%	50V	C526	1-162-291-31	CERAMIC	560PF	10% 50V
C229	1-130-475-00	MYLAR	0.0022MF	5%	50V	C527	1-162-291-31	CERAMIC	560PF	10% 50V
C230	1-130-475-00	MYLAR	0.0022MF	5%	50V	C528	1-131-368-00	TANTALUM	3.3MF	20% 16V
C231	1-130-478-00	MYLAR	0.0039MF	5%	50V	C529	1-136-802-11	FILM	0.015MF	5% 100V
C232	1-136-173-00	FILM	0.47MF	5%	50V	C530	1-130-467-00	MYLAR	470PF	5% 50V
C233	1-136-167-00	FILM	0.15MF	5%	50V	C531	1-130-467-00	MYLAR	470PF	5% 50V
C234	1-136-155-00	FILM	0.015MF	5%	50V	C701	1-124-911-11	ELECT	220MF	20% 50V
C235	1-123-380-00	ELECT	1MF	20%	50V	C702	1-124-557-11	ELECT	1000MF	20% 25V
C236	1-136-169-00	FILM	0.22MF	5%	50V	C703	1-124-499-11	ELECT	1MF	20% 50V
C237	1-136-163-00	FILM	0.068MF	5%	50V	C704	1-124-472-11	ELECT	470MF	20% 10V
C238	1-136-162-00	FILM	0.056MF	5%	50V	C705	1-123-875-11	ELECT	10MF	20% 50V
C239	1-123-380-00	ELECT	1MF	20%	50V	C706	1-124-472-11	ELECT	470MF	20% 10V
C240	1-130-480-00	MYLAR	0.0056MF	5%	50V	C707	1-124-477-11	ELECT	47MF	20% 25V
C241	1-136-153-00	FILM	0.01MF	5%	50V	C708	1-162-211-31	CERAMIC	33PF	5% 50V
C242	1-124-929-11	ELECT	22MF	20%	63V	C709	1-124-472-11	ELECT	470MF	20% 10V
C243	1-124-929-11	ELECT	22MF	20%	63V	C710	1-123-875-11	ELECT	10MF	20% 50V
C244	1-130-473-00	MYLAR	0.0015MF	5%	50V	C711	1-124-122-11	ELECT	100MF	20% 35V
C246	1-136-164-00	FILM	0.082MF	5%	50V	C712	1-124-477-11	ELECT	47MF	20% 25V
C247	1-136-155-00	FILM	0.015MF	5%	50V	C713	1-162-203-31	CERAMIC	15PF	5% 50V
C248	1-136-160-00	FILM	0.039MF	5%	50V	C714	1-162-203-31	CERAMIC	15PF	5% 50V
C249	1-136-156-00	FILM	0.018MF	5%	50V	C715	1-136-157-00	FILM	0.022MF	5% 50V
C250	1-136-160-00	FILM	0.039MF	5%	50V	C716	1-124-477-11	ELECT	47MF	20% 25V
C251	1-136-157-00	FILM	0.022MF	5%	50V	C717	1-161-327-00	CERAMIC	0.0033MF	20% 16V
C252	1-130-476-00	MYLAR	0.0027MF	5%	50V	C718	1-161-327-00	CERAMIC	0.0033MF	20% 16V
C253	1-124-929-11	ELECT	22MF	20%	63V	C719	1-162-211-31	CERAMIC	33PF	5% 50V
C254	1-130-473-00	MYLAR	0.0015MF	5%	50V	C720	1-162-211-31	CERAMIC	33PF	5% 50V
C255	1-107-157-00	MICA	27PF	5%	500V	C721	1-124-443-00	ELECT	100MF	20% 10V
C256	1-107-157-00	MICA	27PF	5%	500V	C722	1-124-443-00	ELECT	100MF	20% 10V
C257	1-124-767-00	ELECT	2.2MF	20%	50V	C723	1-162-284-31	CERAMIC	150PF	10% 50V
C258	1-124-925-11	ELECT	2.2MF	20%	50V	C724	1-162-284-31	CERAMIC	150PF	10% 50V
C259	1-124-927-11	ELECT	4.7MF	20%	50V	C725	1-162-294-31	CERAMIC	0.001MF	10% 50V
C260	1-123-369-00	ELECT	4.7MF	20%	63V	C726	1-124-477-11	ELECT	47MF	20% 25V
C261	1-107-163-00	MICA	47PF	5%	500V	C727	1-124-443-00	ELECT	100MF	20% 10V
C501	1-123-377-00	ELECT	470MF	20%	63V	C728	1-136-159-00	FILM	0.033MF	5% 50V
C502	1-123-377-00	ELECT	470MF	20%	63V	C795	1-162-294-31	CERAMIC	0.001MF	10% 50V
C503	1-123-378-00	ELECT	1000MF	20%	63V	C801	1-161-744-00	CERAMIC	0.01MF	400V
C504	1-123-378-00	ELECT	1000MF	20%	63V	C802	1-123-875-11	ELECT	10MF	20% 50V
C505	1-124-915-11	ELECT	10MF	20%	63V	C803	1-124-499-11	ELECT	1MF	20% 50V
C506	1-124-915-11	ELECT	10MF	20%	63V	C804	1-124-911-11	ELECT	220MF	20% 50V
C507	1-123-875-11	ELECT	10MF	20%	50V	C805	1-124-637-11	ELECT	1000MF	20% 50V
C508	1-123-875-11	ELECT	10MF	20%	50V	C806	1-124-636-00	ELECT	3300MF	20% 25V
C509	1-123-875-11	ELECT	10MF	20%	50V	C807	1-123-875-11	ELECT	10MF	20% 50V


Ref.No.	Part No.	Description					Ref.No.	Part No.	Description
C808	1-124-122-11	ELECT	100MF	20%	35V		D513	8-719-114-29	DIODE RD5.1JS
C809	1-126-129-11	ELECT	6800MF	20%	35V		D514	8-719-933-71	DIODE HZS11C3L
C810	1-126-129-11	ELECT	6800MF	20%	35V		D515	8-719-933-71	DIODE HZS11C3L
C811	1-136-165-00	FILM	0.1MF	5%	50V		D516	8-719-114-29	DIODE RD5.1JS
C812	1-136-177-00	FILM	1MF	5%	50V		D701	8-719-933-41	DIODE HZS6C3L
C821	1-124-443-00	ELECT	100MF	20%	10V		D702	8-719-933-57	DIODE HZS9B1L
C901	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V		D703	8-719-933-36	DIODE HZS6B1L
C902	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V		D704	8-719-934-13	DIODE HZS24-1L
C903	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V		D705	8-719-114-29	DIODE RD5.1JSB1
C904	1-163-077-00	CERAMIC CHIP	0.1MF		50V		D706	8-719-200-77	DIODE 10E2N
C905	1-124-779-00	ELECT CHIP	10MF	20%	16V		D707	8-719-200-77	DIODE 10E2N
C906	1-135-091-00	TANTAL. CHIP	1MF	10%	16V		D708	8-719-200-77	DIODE 10E2N
C907	1-163-077-00	CERAMIC CHIP	0.1MF		50V		D709	8-719-900-79	DIODE BG5628S (▶)
C908	1-163-077-00	CERAMIC CHIP	0.1MF		50V		D710	8-719-956-28	DIODE BR5628S (■)
C909	1-163-077-00	CERAMIC CHIP	0.1MF		50V		D711	8-719-913-47	DIODE EAA5638S (●)
C910	1-163-063-00	CERAMIC CHIP	0.022MF	10%	50V		D712	8-719-912-29	DIODE 1SS120
C911	1-124-779-00	ELECT CHIP	10MF	20%	16V		D713	8-719-114-29	DIODE RD5.1JSB1
C1001	1-123-875-11	ELECT	10MF	20%	50V		D714	8-719-912-20	DIODE 1SS120
C1002	1-123-875-11	ELECT	10MF	20%	50V		D801	8-719-114-19	DIODE RD5.1JSB1
CN501	*1-560-062-00	PIN, CONNECTOR 4P					D802	8-719-912-20	DIODE 1SS120
CN502	*1-564-507-11	PLUG, CONNECTOR 4P					D803	8-719-504-60	DIODE S2VB20
CN503	*1-564-506-11	PLUG, CONNECTOR 3P					D804	8-719-200-77	DIODE 10E2N
CN504	*1-560-062-00	PIN, CONNECTOR 4P					D805	8-719-200-77	DIODE 10E2N
CN505	*1-560-061-00	PIN, CONNECTOR 3P					D806	8-719-934-18	DIODE HZS27-2L
CN506	*1-564-338-61	PIN, CONNECTOR 4P					D807	8-719-230-02	DIODE 30D4
CN507	*1-564-340-00	PIN, CONNECTOR 6P					D808	8-719-230-02	DIODE 30D4
CN508	*1-564-340-71	PIN, CONNECTOR 6P					D809	8-719-230-02	DIODE 30D4
CN509	*1-564-338-00	PIN, CONNECTOR 4P					D810	8-719-230-02	DIODE 30D4
CN510	*1-564-338-71	PIN, CONNECTOR 4P					D1001	8-719-107-94	DIODE 1SS132
CN511	*1-564-338-81	PIN, CONNECTOR 4P					D1002	8-719-107-94	DIODE 1SS132
CN512	*1-564-339-00	PIN, CONNECTOR 5P					EH501	1-543-358-11	HEAD, MAGNETIC (ERASE)
CN701	*1-564-508-11	PLUG, CONNECTOR 5P					F801	△ 1-532-259-00	(AEP,UK,E).....FUSE, TIME-LAG (1.6A)
CN702	*1-564-337-00	PIN, CONNECTOR 3P					F801	△ 1-532-742-11	(US,Canadian)...FUSE, GLASS TUBE (1.6A)
CN703	*1-564-336-00	PIN, CONNECTOR 2P					F802	△ 1-532-259-00	(AEP,UK,E).....FUSE, TIME-LAG (1.6A)
CN704	*1-564-340-00	PIN, CONNECTOR 6P					F802	△ 1-532-742-11	(US,Canadian)...FUSE, GLASS TUBE (1.6A)
CN705	*1-564-339-61	PIN, CONNECTOR 5P					FL501	1-519-497-11	INDICATOR TUBE, FLUORESCENT
CN706	*1-564-339-00	PIN, CONNECTOR 5P					FL701	1-519-409-11	INDICATOR TUBE, FLUORESCENT (COUNTER)
CN707	*1-564-338-61	PIN, CONNECTOR 4P					H901	8-719-403-79	OH009-TW
CN708	*1-564-338-00	PIN, CONNECTOR 4P					H902	8-719-403-79	OH009-TW
CN709	*1-564-337-61	PIN, CONNECTOR 3P					H903	8-719-403-79	OH009-TW
CN710	*1-564-342-11	PIN, CONNECTOR 8P					IC501	8-759-604-38	IC M5F78M10
CN711	*1-564-341-11	PIN, CONNECTOR 7P					IC502	8-759-604-44	IC M5F79M10
CN712	*1-564-507-11	PLUG, CONNECTOR 4P					IC503	8-759-602-01	IC M5220P
CP501	1-466-045-11	OSCILLATION UNIT, BIAS					IC504	8-752-018-80	IC CX20188
CT501	1-141-225-00	CAP, TUNING, TRIMAR					IC505	8-759-602-83	IC M5238P
D501	8-719-933-47	DIODE HZS7B2L					IC506	8-752-018-80	IC CX20188
D502	8-719-933-71	DIODE HZS11C3L					IC507	8-759-981-96	IC RC4560D
D503	8-719-912-20	DIODE 1SS120					IC508	8-759-981-96	IC RC4560D
D504	8-719-912-20	DIODE 1SS120					IC509	8-759-145-58	IC UPC4558C
D505	8-719-912-20	DIODE 1SS120					IC510	8-759-961-38	IC BA6138
D506	8-719-912-20	DIODE 1SS120					IC511	8-759-982-26	IC RC78L12A
D507	8-719-912-20	DIODE 1SS120					IC512	8-759-904-72	IC MSL9359RS
D508	8-719-912-20	DIODE 1SS120					IC701	8-759-938-34	IC MB88517B-228N
D509	8-719-912-20	DIODE 1SS120					IC702	8-759-602-47	IC M50761-417P
D510	8-719-912-20	DIODE 1SS120					IC703	8-759-601-45	IC M4069UBP
D511	8-719-912-20	DIODE 1SS120							
D512	8-719-912-20	DIODE 1SS120							

<p>Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p>	<p>Note: Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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Ref.No.	Part No.	Description
IC704	8-759-201-58	IC TC9142P
IC705	8-741-138-70	IC BX-1387
IC706	8-759-905-48	IC MSL9512RS
IC901	8-759-100-96	IC UPC4558G2
IC902	8-752-017-40	IC CX20174
J501	1-507-531-31	PLATE, PIN-JACK (LINE IN/OUT)
J502	1-507-796-71	JACK (HEADPHONES)
JR901	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR902	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR903	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR904	1-216-296-00	METAL GLAZE 0 5% 1/8W
JR905	1-216-296-00	METAL GLAZE 0 5% 1/8W
L101	1-408-924-00	INDUCTOR 10MMH
L102	1-408-925-11	INDUCTOR 12MMH
L103	1-408-920-00	INDUCTOR 4.7MMH
L104	1-408-918-11	INDUCTOR 3.3MMH
L105	1-408-916-11	INDUCTOR 2.2MMH
L106	1-408-925-11	INDUCTOR 12MMH
L201	1-408-924-00	INDUCTOR 10MMH
L202	1-408-925-11	INDUCTOR 12MMH
L203	1-408-920-00	INDUCTOR 4.7MMH
L204	1-408-918-11	INDUCTOR 3.3MMH
L205	1-408-916-11	INDUCTOR 2.2MMH
L206	1-408-925-11	INDUCTOR 12MMH
L501	1-410-525-11	INDUCTOR 220UH
L502	1-410-525-11	INDUCTOR 220UH
L503	1-410-525-11	INDUCTOR 220UH
L1001	1-459-426-00	COIL (FG)
LPF101	1-236-087-11	FILTER, LOW PASS
LPF201	1-236-087-11	FILTER, LOW PASS
M901	X-3575-382-1	MOTOR ASSY, REEL
PH501	8-825-770-51	HEAD, REC/PB RPA230-3602C (including RH501)
PL1001	1-518-313-00	LAMP, PILOT
PM901	1-454-333-00	SOLENOID, PLUNGER
PM902	1-454-291-00	SOLENOID, PLUNGER
PT801A	1-448-948-11	(US,Canadian)...TRANSFORMER, POWER
PT801A	1-448-949-11	(AEP,UK).....TRANSFORMER, POWER
PT801A	1-449-005-11	(E).....TRANSFORMER, POWER
Q101	8-729-107-84	TRANSISTOR 2SC3623A-L
Q102	8-729-102-04	TRANSISTOR 2SD1020-F
Q103	8-729-107-84	TRANSISTOR 2SC3623A-L
Q104	8-729-107-84	TRANSISTOR 2SC3623A-L
Q105	8-729-107-84	TRANSISTOR 2SC3623A-L
Q106	8-729-107-84	TRANSISTOR 2SC3623A-L
Q201	8-729-107-84	TRANSISTOR 2SC3623A-L
Q202	8-729-102-04	TRANSISTOR 2SD1020-F
Q203	8-729-107-84	TRANSISTOR 2SC3623A-L
Q204	8-729-107-84	TRANSISTOR 2SC3623A-L
Q205	8-729-107-84	TRANSISTOR 2SC3623A-L
Q206	8-729-107-84	TRANSISTOR 2SC3623A-L
Q501	8-729-900-63	TRANSISTOR DTA124ES
Q502	8-729-900-89	TRANSISTOR DTC144ES
Q503	8-729-900-36	TRANSISTOR DTC124ES

Ref.No.	Part No.	Description
Q504	8-729-900-36	TRANSISTOR DTC124ES
Q505	8-729-900-36	TRANSISTOR DTC124ES
Q506	8-729-900-36	TRANSISTOR DTC124ES
Q507	8-729-900-36	TRANSISTOR DTC124ES
Q508	8-729-281-53	TRANSISTOR 2SC1815GR
Q509	8-729-281-53	TRANSISTOR 2SC1815GR
Q510	8-729-178-54	TRANSISTOR 2SC2785
Q511	8-729-900-63	TRANSISTOR DTA124ES
Q512	8-729-900-36	TRANSISTOR DTC144ES
Q513	8-729-117-54	TRANSISTOR 2SA1175
Q514	8-729-178-54	TRANSISTOR 2SC2785
Q515	8-729-900-65	TRANSISTOR DTA144ES
Q516	8-729-900-65	TRANSISTOR DTA144ES
Q517	8-729-900-65	TRANSISTOR DTA144ES
Q518	8-729-900-65	TRANSISTOR DTA144ES
Q519	8-729-900-65	TRANSISTOR DTA144ES
Q520	8-729-900-65	TRANSISTOR DTA144ES
Q521	8-729-900-89	TRANSISTOR DTC144ES
Q701	8-729-107-25	TRANSISTOR 2SD1585-L
Q702	8-729-107-25	TRANSISTOR 2SD1585-L
Q703	8-729-107-25	TRANSISTOR 2SD1585-L
Q704	8-729-107-25	TRANSISTOR 2SD1585-L
Q705	8-729-107-25	TRANSISTOR 2SD1585-L
Q706	8-729-178-54	TRANSISTOR 2SC2785
Q707	8-729-178-54	TRANSISTOR 2SC2785
Q708	8-729-178-54	TRANSISTOR 2SC2785
Q709	8-729-178-54	TRANSISTOR 2SC2785
Q710	8-729-178-54	TRANSISTOR 2SC2785
Q711	8-729-802-34	TRANSISTOR 2SD1388
Q712	8-729-900-80	TRANSISTOR DTC114ES
Q713	8-729-802-34	TRANSISTOR 2SD1388
Q714	8-729-900-80	TRANSISTOR DTC144ES
Q715	8-729-802-22	TRANSISTOR 2SB1014
Q716	8-729-802-22	TRANSISTOR 2SB1014
Q717	8-729-900-80	TRANSISTOR DTC144ES
Q718	8-729-801-93	TRANSISTOR 2SD1387
Q719	8-729-801-93	TRANSISTOR 2SD1387
Q720	8-729-801-83	TRANSISTOR 2SB1013
Q721	8-729-801-83	TRANSISTOR 2SB1013
Q722	8-729-900-61	TRANSISTOR DTA114ES
Q801	8-729-180-92	TRANSISTOR 2SD809-K
Q1001	8-729-110-22	TRANSISTOR PH102
Q1002	8-729-110-22	TRANSISTOR PH102
R101	1-249-466-11	CARBON 56K 5% 1/4W
R102	1-249-652-11	CARBON 130 5% 1/2W
R103	1-249-602-11	CARBON 120K 5% 1/4W
R104	1-247-255-00	CARBON 4.3K 5% 1/2W
R105	1-249-537-11	CARBON 240 5% 1/4W
R106	1-249-539-11	CARBON 300 5% 1/4W
R107	1-249-429-11	CARBON 10K 5% 1/4W
R108	1-247-717-11	CARBON 2.2K 5% 1/4W
R109	1-249-928-11	CARBON 1.6K 5% 1/4W
R110	1-247-749-11	CARBON 560 5% 1/2W
R111	1-247-764-11	CARBON 10K 5% 1/2W
R112	1-247-146-00	CARBON 4.3K 5% 1/4W

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC-K333ESR/K730ES

Ref.No. Part No. Description

R113	1-247-142-00	CARBON	3K	5%	1/4W
R114	1-246-545-00	CARBON	1M	5%	1/4W
R115	1-249-917-11	CARBON	560	1%	1/4W
R116	1-247-193-00	CARBON	22K	1%	1/4W
R117	1-247-152-00	CARBON	7.5K	5%	1/4W
R118	1-247-711-11	CARBON	680	5%	1/4W
R119	1-247-154-00	CARBON	9.1K	5%	1/4W
R120	1-249-465-11	CARBON	47K	5%	1/4W
R121	1-249-490-11	CARBON	27K	5%	1/2W
R122	1-249-824-11	CARBON	8.2K	5%	1/2W
R123	1-249-469-11	CARBON	100K	5%	1/4W
R124	1-247-723-11	CARBON	6.8K	5%	1/4W
R125	1-247-720-11	CARBON	3.9K	5%	1/4W
R126	1-247-719-11	CARBON	3.3K	5%	1/4W
R127	1-247-152-00	CARBON	7.5K	5%	1/4W
R128	1-249-469-11	CARBON	100K	5%	1/4W
R129	1-247-747-11	CARBON	470	5%	1/2W
R130	1-247-764-11	CARBON	10K	5%	1/2W
R131	1-247-146-00	CARBON	4.3K	5%	1/4W
R132	1-247-142-00	CARBON	3K	5%	1/4W
R133	1-246-545-00	CARBON	1M	5%	1/4W
R134	1-249-917-11	CARBON	560	1%	1/4W
R135	1-247-193-00	CARBON	22K	1%	1/4W
R136	1-247-152-00	CARBON	7.5K	5%	1/4W
R137	1-247-711-11	CARBON	680	5%	1/4W
R138	1-247-154-00	CARBON	9.1K	5%	1/4W
R139	1-249-465-11	CARBON	47K	5%	1/4W
R140	1-247-721-11	CARBON	4.7K	5%	1/4W
R141	1-249-461-11	CARBON	18K	5%	1/4W
R142	1-247-719-11	CARBON	3.3K	5%	1/4W
R143	1-247-723-11	CARBON	6.8K	5%	1/4W
R144	1-249-425-11	CARBON	4.7K	5%	1/4W
R145	1-249-590-11	CARBON	39K	5%	1/4W
R146	1-249-429-11	CARBON	10K	5%	1/4W
R147	1-249-469-11	CARBON	100K	5%	1/4W
R148	1-249-459-11	CARBON	12K	5%	1/4W
R149	1-247-717-11	CARBON	2.2K	5%	1/4W
R150	1-249-466-11	CARBON	56K	5%	1/4W
R151	1-249-590-11	CARBON	39K	5%	1/4W
R152	1-247-703-11	CARBON	180	5%	1/4W
R153	1-249-459-11	CARBON	12K	5%	1/4W
R154	1-247-700-11	CARBON	100	5%	1/4W
R155	1-247-142-00	CARBON	3K	5%	1/4W
R156	1-247-721-11	CARBON	4.7K	5%	1/4W
R157	1-249-429-11	CARBON	10K	5%	1/4W
R158	1-249-429-11	CARBON	10K	5%	1/4W
R159	1-247-700-11	CARBON	100	5%	1/4W
R160	1-247-718-11	CARBON	2.7K	5%	1/4W
R161	1-247-720-11	CARBON	3.9K	5%	1/4W
R162	1-249-429-11	CARBON	10K	5%	1/4W
R163	1-247-718-11	CARBON	2.7K	5%	1/4W
R164	1-247-714-11	CARBON	1.2K	5%	1/4W
R165	1-247-721-11	CARBON	4.7K	5%	1/4W
R166	1-249-461-11	CARBON	18K	5%	1/4W
R167	1-249-469-11	CARBON	100K	5%	1/4W
R168	1-247-704-11	CARBON	220	5%	1/4W
R169	1-247-749-11	CARBON	560	5%	1/2W

Ref.No. Part No. Description

R170	1-249-421-11	CARBON	2.2K	5%	1/4W
R171	1-249-397-11	CARBON	22	5%	1/4W
R172	1-247-883-00	CARBON	150K	5%	1/4W
R173	1-249-429-11	CARBON	10K	5%	1/4W
R174	1-247-725-11	CARBON	10K	5%	1/4W
R175	1-249-441-11	CARBON	100K	5%	1/4W
R201	1-249-466-11	CARBON	56K	5%	1/4W
R202	1-249-652-11	CARBON	130	5%	1/2W
R203	1-249-602-11	CARBON	120K	5%	1/4W
R204	1-247-255-00	CARBON	4.3K	5%	1/2W
R205	1-249-537-11	CARBON	240	5%	1/4W
R206	1-249-539-11	CARBON	300	5%	1/4W
R207	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-247-717-11	CARBON	2.2K	5%	1/4W
R209	1-249-928-11	CARBON	1.6K	5%	1/4W
R210	1-247-749-11	CARBON	560	5%	1/2W
R211	1-247-764-11	CARBON	10K	5%	1/2W
R212	1-247-146-00	CARBON	4.3K	5%	1/4W
R213	1-247-142-00	CARBON	3K	5%	1/4W
R214	1-246-545-00	CARBON	1M	5%	1/4W
R215	1-249-917-11	CARBON	560	1%	1/4W
R216	1-247-193-00	CARBON	22K	1%	1/4W
R217	1-247-152-00	CARBON	7.5K	5%	1/4W
R218	1-247-711-11	CARBON	680	5%	1/4W
R219	1-247-154-00	CARBON	9.1K	5%	1/4W
R220	1-249-465-11	CARBON	47K	5%	1/4W
R221	1-249-490-11	CARBON	27K	5%	1/2W
R222	1-249-824-11	CARBON	8.2K	5%	1/2W
R223	1-249-469-11	CARBON	100K	5%	1/4W
R224	1-247-723-11	CARBON	6.8K	5%	1/4W
R225	1-247-720-11	CARBON	3.9K	5%	1/4W
R226	1-247-719-11	CARBON	3.3K	5%	1/4W
R227	1-247-152-00	CARBON	7.5K	5%	1/4W
R228	1-249-469-11	CARBON	100K	5%	1/4W
R229	1-247-747-11	CARBON	470	5%	1/2W
R230	1-247-764-11	CARBON	10K	5%	1/2W
R231	1-247-146-00	CARBON	4.3K	5%	1/4W
R232	1-247-142-00	CARBON	3K	5%	1/4W
R233	1-246-545-00	CARBON	1M	5%	1/4W
R234	1-249-917-11	CARBON	560	1%	1/4W
R235	1-247-193-00	CARBON	22K	1%	1/4W
R236	1-247-152-00	CARBON	7.5K	5%	1/4W
R237	1-247-711-11	CARBON	680	5%	1/4W
R238	1-247-154-00	CARBON	9.1K	5%	1/4W
R239	1-249-465-11	CARBON	47K	5%	1/4W
R240	1-247-721-11	CARBON	4.7K	5%	1/4W
R241	1-249-461-11	CARBON	18K	5%	1/4W
R242	1-247-719-11	CARBON	3.3K	5%	1/4W
R243	1-247-723-11	CARBON	6.8K	5%	1/4W
R244	1-249-425-11	CARBON	4.7K	5%	1/4W
R245	1-249-590-11	CARBON	39K	5%	1/4W
R246	1-249-429-11	CARBON	10K	5%	1/4W
R247	1-249-469-11	CARBON	100K	5%	1/4W
R248	1-249-459-11	CARBON	12K	5%	1/4W
R249	1-247-717-11	CARBON	2.2K	5%	1/4W
R250	1-249-466-11	CARBON	56K	5%	1/4W
R251	1-249-590-11	CARBON	39K	5%	1/4W

Ref.No.	Part No.	Description
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R252	1-247-703-11	CARBON	180	5%	1/4W
R253	1-249-459-11	CARBON	12K	5%	1/4W
R254	1-247-700-11	CARBON	100	5%	1/4W
R255	1-247-142-00	CARBON	3K	5%	1/4W
R256	1-247-721-11	CARBON	4.7K	5%	1/4W
R257	1-249-429-11	CARBON	10K	5%	1/4W
R258	1-249-429-11	CARBON	10K	5%	1/4W
R259	1-247-700-11	CARBON	100	5%	1/4W
R260	1-247-718-11	CARBON	2.7K	5%	1/4W
R261	1-247-720-11	CARBON	3.9K	5%	1/4W
R262	1-249-429-11	CARBON	10K	5%	1/4W
R263	1-247-718-11	CARBON	2.7K	5%	1/4W
R264	1-247-714-11	CARBON	1.2K	5%	1/4W
R265	1-247-721-11	CARBON	4.7K	5%	1/4W
R266	1-249-461-11	CARBON	18K	5%	1/4W
R267	1-249-469-11	CARBON	100K	5%	1/4W
R268	1-247-704-11	CARBON	220	5%	1/4W
R269	1-247-749-11	CARBON	560	5%	1/2W
R270	1-249-421-11	CARBON	2.2K	5%	1/4W
R271	1-249-397-11	CARBON	22	5%	1/4W
R272	1-247-883-00	CARBON	150K	5%	1/4W
R273	1-249-429-11	CARBON	10K	5%	1/4W
R274	1-247-725-11	CARBON	10K	5%	1/4W
R275	1-249-441-11	CARBON	100K	5%	1/4W
R501	1-249-433-11	CARBON	22K	5%	1/4W
R502	1-215-472-00	METAL	130K	1%	1/6W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-215-472-00	METAL	130K	1%	1/6W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R506	1-249-438-11	CARBON	56K	5%	1/4W
R507	1-249-433-11	CARBON	22K	5%	1/4W
R508	1-249-421-11	CARBON	2.2K	5%	1/4W
R509	1-249-429-11	CARBON	10K	5%	1/4W
R510	1-249-438-11	CARBON	56K	5%	1/4W
R511	1-249-438-11	CARBON	56K	5%	1/4W
R512	1-249-438-11	CARBON	56K	5%	1/4W
R513	1-249-433-11	CARBON	22K	5%	1/4W
R514	1-249-438-11	CARBON	56K	5%	1/4W
R515	1-249-429-11	CARBON	10K	5%	1/4W
R516	1-249-433-11	CARBON	22K	5%	1/4W
R517	1-249-437-11	CARBON	47K	5%	1/4W
R518	1-249-438-11	CARBON	56K	5%	1/4W
R519	1-247-862-11	CARBON	20K	5%	1/4W
R520	1-247-848-11	CARBON	5.1K	5%	1/4W
R521	1-249-425-11	CARBON	4.7K	5%	1/4W
R522	1-247-846-11	CARBON	4.3K	5%	1/4W
R523	1-249-425-11	CARBON	4.7K	5%	1/4W
R524	1-249-417-11	CARBON	1K	5%	1/4W
R525	1-249-437-11	CARBON	47K	5%	1/4W
R526	1-249-433-11	CARBON	22K	5%	1/4W
R527	1-247-700-11	CARBON	100	5%	1/4W
R528	1-247-700-11	CARBON	100	5%	1/4W
R529	1-249-429-11	CARBON	10K	5%	1/4W
R530	1-249-437-11	CARBON	47K	5%	1/4W
R531	1-247-700-11	CARBON	100	5%	1/4W
R532	1-247-700-11	CARBON	100	5%	1/4W
R533	1-249-433-11	CARBON	22K	5%	1/4W



Ref.No.	Part No.	Description
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R534	1-249-441-11	CARBON	100K	5%	1/4W
R535	1-249-441-11	CARBON	100K	5%	1/4W
R536	1-249-441-11	CARBON	100K	5%	1/4W
R537	1-249-441-11	CARBON	100K	5%	1/4W
R538	1-249-441-11	CARBON	100K	5%	1/4W
R539	1-249-441-11	CARBON	100K	5%	1/4W
R540	1-249-441-11	CARBON	100K	5%	1/4W
R541	1-249-441-11	CARBON	100K	5%	1/4W
R542	1-249-410-11	CARBON	270	5%	1/4W
R543	1-249-410-11	CARBON	270	5%	1/4W
R544	1-247-887-00	CARBON	220K	5%	1/4W
R545	1-249-432-11	CARBON	18K	5%	1/4W
R546	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-429-11	CARBON	10K	5%	1/4W
R548	1-249-405-11	CARBON	100	5%	1/4W
R549	1-249-405-11	CARBON	100	5%	1/4W
R550	1-249-405-11	CARBON	100	5%	1/4W
R551	1-249-405-11	CARBON	100	5%	1/4W
R552	1-249-405-11	CARBON	100	5%	1/4W
R553	1-249-405-11	CARBON	100	5%	1/4W
R554	1-249-405-11	CARBON	100	5%	1/4W
R555	1-249-405-11	CARBON	100	5%	1/4W
R556	1-249-405-11	CARBON	100	5%	1/4W
R557	1-249-405-11	CARBON	100	5%	1/4W
R701	1-247-721-11	CARBON	4.7K	5%	1/4W
R702	1-249-437-11	CARBON	47K	5%	1/4W
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-247-717-11	CARBON	2.2K	5%	1/4W
R705	1-249-437-11	CARBON	47K	5%	1/4W
R706	1-249-421-11	CARBON	2.2K	5%	1/4W
R707	1-247-717-11	CARBON	2.2K	5%	1/4W
R708	1-247-717-11	CARBON	2.2K	5%	1/4W
R709	1-249-437-11	CARBON	47K	5%	1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W
R711	1-247-708-11	CARBON	470	5%	1/4W
R712	1-247-713-11	CARBON	1K	5%	1/4W
R713	1-247-717-11	CARBON	2.2K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-249-421-11	CARBON	2.2K	5%	1/4W
R716	1-247-721-11	CARBON	4.7K	5%	1/4W
R717	1-247-891-00	CARBON	330K	5%	1/4W
R718	1-249-441-11	CARBON	100K	5%	1/4W
R719	1-249-417-11	CARBON	1K	5%	1/4W
R720	1-249-417-11	CARBON	1K	5%	1/4W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-247-717-11	CARBON	2.2K	5%	1/4W
R723	1-249-437-11	CARBON	47K	5%	1/4W
R724	1-247-729-11	CARBON	15	5%	1/2W
R725	1-249-429-11	CARBON	10K	5%	1/4W
R726	1-247-717-11	CARBON	2.2K	5%	1/4W
R727	1-249-437-11	CARBON	47K	5%	1/4W
R728	1-249-429-11	CARBON	10K	5%	1/4W
R729	1-249-417-11	CARBON	1K	5%	1/4W
R730	1-249-417-11	CARBON	1K	5%	1/4W
R731	1-249-429-11	CARBON	10K	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W

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Ref.No.	Part No.	Description			
R734	1-249-417-11	CARBON	1K	5%	1/4W
R735	1-249-429-11	CARBON	10K	5%	1/4W
R736	1-247-711-11	CARBON	680	5%	1/4W
R737	1-247-715-11	CARBON	1.5K	5%	1/4W
R738	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R739	1-249-437-11	CARBON	47K	5%	1/4W
R740	1-249-437-11	CARBON	47K	5%	1/4W
R741	1-247-883-00	CARBON	150K	5%	1/4W
R742	1-247-883-00	CARBON	150K	5%	1/4W
R743	1-249-417-11	CARBON	1K	5%	1/4W
R744	1-249-433-11	CARBON	22K	5%	1/4W
R745	1-249-433-11	CARBON	22K	5%	1/4W
R746	1-249-433-11	CARBON	22K	5%	1/4W
R747	1-249-433-11	CARBON	22K	5%	1/4W
R748	1-249-417-11	CARBON	1K	5%	1/4W
R749	1-249-417-11	CARBON	1K	5%	1/4W
R750	1-249-430-11	CARBON	12K	5%	1/4W
R751	1-249-430-11	CARBON	12K	5%	1/4W
R752	1-249-433-11	CARBON	22K	5%	1/4W
R753	1-249-433-11	CARBON	22K	5%	1/4W
R754	1-249-433-11	CARBON	22K	5%	1/4W
R755	1-249-433-11	CARBON	22K	5%	1/4W
R756	1-249-433-11	CARBON	22K	5%	1/4W
R757	1-249-433-11	CARBON	22K	5%	1/4W
R758	1-249-433-11	CARBON	22K	5%	1/4W
R759	1-249-441-11	CARBON	100K	5%	1/4W
R760	1-249-429-11	CARBON	10K	5%	1/4W
R761	1-249-413-11	CARBON	470	5%	1/4W
R762	1-249-413-11	CARBON	470	5%	1/4W
R763	1-249-413-11	CARBON	470	5%	1/4W
R764	1-249-413-11	CARBON	470	5%	1/4W
R765	1-249-409-11	CARBON	220	5%	1/4W
R766	1-249-413-11	CARBON	470	5%	1/4W
R767	1-249-410-11	CARBON	270	5%	1/4W
R768	1-249-417-11	CARBON	1K	5%	1/4W
R769	1-249-417-11	CARBON	1K	5%	1/4W
R770	1-249-432-11	CARBON	18K	5%	1/4W
R771	1-249-430-11	CARBON	12K	5%	1/4W
R772	1-249-433-11	CARBON	22K	5%	1/4W
R773	1-249-422-11	CARBON	2.7K	5%	1/4W
R774	1-247-903-00	CARBON	1M	5%	1/4W
R775	1-249-433-11	CARBON	22K	5%	1/4W
R776	1-249-429-11	CARBON	10K	5%	1/4W
R777	1-249-426-11	CARBON	5.6K	5%	1/4W
R778	1-249-430-11	CARBON	12K	5%	1/4W

Ref.No.	Part No.	Description			
R779	1-249-433-11	CARBON	22K	5%	1/4W
R780	1-249-431-11	CARBON	15K	5%	1/4W
R781	1-249-430-11	CARBON	12K	5%	1/4W
R782	1-249-426-11	CARBON	5.6K	5%	1/4W
R783	1-249-429-11	CARBON	10K	5%	1/4W
R784	1-249-433-11	CARBON	22K	5%	1/4W
R785	1-249-431-11	CARBON	15K	5%	1/4W
R786	1-249-433-11	CARBON	22K	5%	1/4W
R787	1-249-458-11	CARBON	8.2	5%	1/4W
R788	1-247-747-11	CARBON	470	5%	1/2W
R789	1-249-429-11	CARBON	10K	5%	1/4W
R790	1-247-694-11	CARBON	33	5%	1/4W
R795	1-247-901-11	CARBON	820K	5%	1/4W
R799	1-247-747-11	CARBON	470	5%	1/2W
R801	1-247-713-11	CARBON	1K	5%	1/4W
R802	1-247-721-11	CARBON	4.7K	5%	1/4W
R803	1-249-437-11	CARBON	47K	5%	1/4W
R804	1-212-861-11	FUSIBLE	15	5%	1/4W F
R901	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R902	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R903	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R904	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R905	1-216-224-00	METAL GLAZE	12K	5%	1/8W
R906	1-216-217-00	METAL GLAZE	6.2K	5%	1/8W
R907	1-216-242-00	METAL GLAZE	68K	5%	1/8W
R908	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R909	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R910	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R911	1-216-182-00	METAL GLAZE	220	5%	1/8W
R912	1-216-182-00	METAL GLAZE	220	5%	1/8W
R913	1-216-150-00	METAL GLAZE	10	5%	1/8W
R914	1-216-150-00	METAL GLAZE	10	5%	1/8W
R915	1-216-150-00	METAL GLAZE	10	5%	1/8W
RV101	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K(PB LEVEL L)		
RV102	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K(REC LEVEL L)		
RV103	1-237-459-21	RES, ADJ, CARBON	10K (LEVEL METER L)		
RV201	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K(PB LEVEL R)		
RV202	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K(REC LEVEL R)		
RV203	1-237-459-21	RES, ADJ, CARBON	10K (LEVEL METER R)		
RV501	1-230-344-11	RES, VAR, CARBON	20K/20K (REC LEVEL)		
RV502	1-237-389-11	RES, VAR, CARBON	5K/5K (CALIBRATION REC LEVEL)		
RV503	1-237-388-11	RES, VAR, CARBON	20K/20K (PHONE LEVEL)		
RV504	1-226-560-00	RES, VAR, CARBON	5K (CALIBRATION BIAS)		
RV505	1-237-456-11	RES, ADJ, CARBON	1K (NORMAL BIAS I)		

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.



Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
RV506	1-237-455-11	RES, ADJ, CARBON 500(NORMAL BIAS IV)
RV701	1-228-990-00	RES, ADJ, CARBON 1K (FWD TORQUE)
RY501	1-515-614-11	RELAY (LINE MUTE)
S501	1-554-338-00	SWITCH, LEVER SLIDE (MONITOR)
S502	1-571-092-11	SWITCH, PUSH (4 KEY) (DOLBY NR,MPX FILTER)
S701	1-554-303-21	SWITCH, KEY BOARD (■)
S702	1-554-303-21	SWITCH, KEY BOARD (◀)
S703	1-554-303-21	SWITCH, KEY BOARD (▶)
S704	1-554-303-21	SWITCH, KEY BOARD (REC ●)
S705	1-554-303-21	SWITCH, KEY BOARD (▶)
S706	1-554-303-21	SWITCH, KEY BOARD (PAUSE ■■)
S707	1-554-303-21	SWITCH, KEY BOARD (REC MUTE ●)
S708	1-554-303-21	SWITCH, KEY BOARD (COUNTER RESET)
S709	1-554-303-21	SWITCH, KEY BOARD (COUNTER MEMORY)
S710	1-516-781-XX	SWITCH, ROTARY (TIMER)
S801	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)
S802	1-570-307-11	(E)...SWITCH, VOLTAGE CHANGE
S1001	1-554-205-00	SWITCH, PUSH (ERASE PROOF)
S1002	1-554-205-00	SWITCH, PUSH (HALF DET)
S1003	1-554-205-00	SWITCH, PUSH (LOCK DET)
S1004	1-554-205-00	SWITCH, PUSH (METAL)
S1005	1-554-205-00	SWITCH, PUSH (CrO2)
TH501	1-800-200-00	THERMISTOR S-3K
THP501	1-202-856-00	SOLID 22 1/4W F
X701	1-567-160-00	OSCILLATOR, CERAMIC (4.19MHz)
X702	1-527-532-00	OSCILLATOR, CERAMIC (400kHz)
X703	1-567-731-11	VIBRATOR, CRYSTAL (10.5MHz)


ACCESSORY & PACKING MATERIAL

1-465-104-11	(UK)...REMOTE COMMANDER (RM-J600)
1-551-734-11	CORD, CONNECTION (RK-74A)
*3-318-684-01	CUSHION
*3-350-429-01	(US,Canadian,AEP)...INDIVIDUAL CARTON
*3-350-429-11	(E).....INDIVIDUAL CARTON
*3-350-437-01	(UK).....INDIVIDUAL CARTON
3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	(US)...INSTRUCTION
3-786-746-21	(US,Canadian,UK,E)...MANUAL, INSTRUCTION
3-786-746-41	(AEP).....MANUAL, INSTRUCTION
3-786-746-51	(Canadian,AEP).....MANUAL, INSTRUCTION
3-793-481-13	INSTRUCTION
4-384-285-01	(UK)...COVER, BATTERY
4-820-330-31	(EXCEPT UK)...SCREW, BW, PLUS MINUS

Note:

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:

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